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CHEMIST AND DRUGGIST
for RETAILER — WHOLESALER — MANUFACTURER
JANUARY 28, 1950

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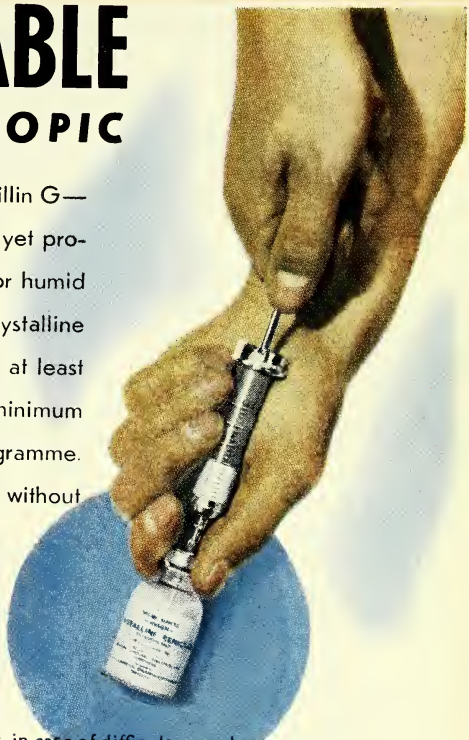

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The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

JANUARY 28, 1950

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

le copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

olume CLIII — No. 3649

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NEWS OF THE WEEK

Increased Sweet Rations.—The sweet ion will be increased to 4½ oz. a week m January 29. Personal points D 10 ll represent ½ oz. each and E 10 4 oz. ch.

Mercury Combine Dissolved. — The lo-Spanish mercury cartel, Mercurio-ropeo, has been dissolved from the end 1949, according to a Reuter report from adrid which states that Spain is now e to sell mercury independently.

Analytical Chemistry Congress. — The ternational Union of Pure and Applied emistry is proposing to form six auto-mous sections, of which one would be ncerned with analytical chemistry, and meeting of the board of that provision-y constituted section will probably be ranged to coincide with an Analytical ngress to be held in Britain in 1952, der the secretaryship of Mr. R. C. Chirn-e, F.R.I.C. (General Electric Co., Ltd., embley, Middlesex).

Grants for Study in U.S.A.—The Min-ry of Education is making available about y post-graduate awards for the study of technology at selected Universities and technological institutions in the United States in the period 1950-51. The first awards under the scheme were made in 1949. Details of the awards may be obtained from the Ministry of Education (F.E. Division 1), Curzon Street House, Curzon Street, London, W.1. The closing date for applications is February 15.

Examination Results.—The following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination held in Scotland in January:—

Bruce, John C.
Bryson, Stuart H.
Cameron, Charles
Campbell, Stephen
Craigen, Walter
Craw, Thomas
Davison. Joan M.
Dunn, Lawrence B.
Ellis, J. R. C.
Ellis, M. Wyn
Findlay, Matthew
Gould, Montague
Hamilton, James
Hardie, George
Harper, Robert
Jowers, Henry A.
Keightley, Marjorie
Lewis, Dennis
Low, William S.
Maguire, Francis I.
Nicoll, Agnes F.
Plenderleith, John A.
Smith, Peter L. A.
Steiner, Hans

Soporifics Under Review.—Excessive use of sleep-producing drugs and the increasingly high rate of production of them

in many countries were discussed by an expert committee of the World Health Organisation at its recent conference on habit-forming drugs. In 1948, production in the United States amounted to 336 tons, equivalent to twenty-four doses per person in that country, an amount greatly in excess of therapeutic needs. The committee recommended that, for the time being, the matter should remain under the discretion of each country.

Invalids as Voters.—A person who, through physical incapacity, is unlikely to be able to attend the polling booth on February 23 may vote by post. Application forms (R.P.F.7) obtainable from the electoral registration officer (usually the town clerk or clerk of the council) should be completed and returned to him, with a medical certificate, by February 3. Applicants will receive between nomination and polling days a ballot paper and full instructions. Hospitals are being asked to see that the ballot papers for in-patients are dispatched immediately.

Marking of Export Packages.—A joint committee and working party is being set up by the Institute of Packaging and the Institute of Export to examine the methods of marking packages in foreign languages. It will consider what foreign language markings are necessary, and prepare, for the guidance of exporters, shippers and packers, a set of markings translated into foreign languages. Apart from the more obvious markings such as "This way up," they will also review such other problems as the marking of net and gross weights for the guidance both of port and transport labour and customs officials, and addressing.

Import Licensing Relaxations. — An open general licence has been granted for the importation of carob gum, juniper berries, malt syrup, and spices of all kinds (except peppercorns of *P. nigrum*) consigned from and originating in any of the permitted sources (i.e., those countries from which imports involve no loss of gold or dollars). The relaxation applying to fruit juices has been amended so as to permit the import on O.G.L. of citrus juices not containing more than 65 per cent. of sugar, in containers of not less than two-thirds gall. capacity, and of other fruit juices not containing more than 65 per cent. of sugar.

Adjustment of Chemists' Accounts.—Supplementing information previously given on the adjustment of chemists' accounts (*C. & D.*, January 14, p. 42), t Minister of Health (in E.C.L. 276A) stat that the adjustment for contractors wh were under contract from January to Ma 1949, but whose "under-2s. 6d." prescri tions were priced in full because they we too few for the averaging method, will b calculated as follows: 0.26 per cent. f January and February where March-Ma were fully priced; 0.49 per cent. for Jan ary-March where April and May we priced; 0.73 per cent. for January-Ap where May was priced. For any oth variations of months assessed and ful priced, no adjustment is to be made.

"Return-the-bottle" Posters.—A 15 10 in. poster reminding patients under t National Health Service of the urgent nee for medicine bottles to be returned in clean condition to the chemist who su plied them is being sent to chemists i England and Wales. In addition, membe of the Women's Voluntary Services, t National Federation of Women's Institute Standing Joint Committee of Workin Women's Organisations and the St. Joh Ambulance Brigade are also helping t display the posters, and they will be di played in nearly 1,000 factories and 20 public libraries. The poster, which ha been produced for the Ministry of Healt by the Central Office of Information, show a giant medicine bottle being hastene back to the chemist on willing shoulder Reports received since the campaign wa launched last September indicate widel varying results from different parts of th country (from 1 to 50 per cent. returns

Chemists Federation. — At a meetin of the Chemists Federation Council hel on January 12, the president (Mr. P. H Smith) in the chair, the application of Ca mic, Ltd., Crewe Hall, Crewe (products Cimlac gauze and Hypon analgesic tab lets), for manufacturer membership wa accepted. The following additions to th schedules of C.F. agreements were ap proved:—Bradley & Bliss, Ltd. (Bliss dua chilblain treatment); Wigglesworth, Ltd (S.N.A. tablets). The following resignation from manufacturer membership wer noted:—Boon Doral, Ltd.; Milner & Coke, Ltd.; and Viosulfal, Ltd. The Coun cil gave authority for all products of Nya Co., Ltd., to be added to the schedule o the C.F. agreement of Harker, Stagg & Morgan, Ltd. Other matters considere included the interim report issued by th B.M.A. Committee on Proprietary Medi cine Advertising and the terms of refer ence of the Cohen Committee.

DINBURGH GOLFERS' SOC'AL EVENT.—The presentation of prizes at the whist drive and dance of Edinburgh Chemists' Golf Club (see paragraph below).

LOCAL NEWS

Isle of Thanet Branch.—At a meeting f the Isle of Thanet Branch of the Pharaceutical Society at Broadstairs on Januy 16, Miss M. A. Burr (a member of ouncil) reviewed the Society's work in he two years since she had last addressed he branch. Replying later to questions, he said it was doubtful if there would be ny form of nationalisation of pharmacies.

Notts Dispensing Complaints.—The reort of the Nottingham and Notts Pharaceutical Service Committee presented at meeting of the Executive Council on anuary 19 stated that chemists had been verworked and understaffed. There had een three minor complaints, two of which vere found by the Committee due to careessness, and the chemists had been cauioned. In the third case, the chemists had oluntarily changed the sources of supply f an ointment.

Edinburgh Chemists' Go'f Club.—A ompany of 400 attended the annual whist rive and dance of the Edinburgh Chemsts' Golf Club on January 18. Mr. R. Iathison received the guests and Mrs. Iathison presented the prizes. The duties f M.C. were carried through by Messrs. R. F. Muir (secretary) and Mr. D. Walker. Among the guests were Messrs. J. C. omerville (chairman, Edinburgh Branch f the Pharmaceutical Society), G.Spittal, Vilson Strachan, and Kerr. The principal rizewinners were Mrs. R. R. Steedman, nd Messrs. W. Dickson and W. Hourston.

An Association for North Devon.—A Vorth Devon Pharmaceutical Association as been formed to promote friendly relaions among pharmacists locally and with nembers of medical and other associations, nd to provide opportunities for debate. At a social evening at Barnstaple on January 18, guests from all parts of the district were welcomed by Mr. L. D. Knight. They included members of the Exeter Branch of the Pharmaceutical Society, with their chairman (Mr. P. M. Smith). The following officers have been appointed: *Chairman,* Mr. L. D. Knight; *Deputy-chairman,* Mr. A. Jones; *Secretary,* Mr. J. M. Ovens, Braeside, High Wall, Barnstaple; *Treasurer,* Mr. L. W. Henson.

Hull Dinner and Dance.—At the annual dinner and dance organised by the Hull Chemists' Association and Branch of the Pharmaceutical Society on January 19, Alderman R. E. Smith (chairman, Hull Executive Council), moving a toast to the Society, said the Council had had less trouble from pharmacists than from any other professional body associated with the National Health Service. Replying to Alderman Smith's toast, Mr. E. A. Brocklehurst (a member of the Society's Council), said pharmacists did not expect thanks for the work they were doing but they did appreciate it. "The pharmacist has had a heavy burden to carry since the institution of the National Health Service." In Hull alone the demand for medicines had been three times as heavy as before. Speaking of the Society's difficult task as a legislative and disciplinary body, Mr. Brocklehurst said, "At the moment the Minister of Health has decided that certain advertising may be allowed. The Society on the other hand, deprecate the advertising of professional services." Mr. T. L. Harrison (president, Hull Chemists' Association), toasted the "City of Hull." A toast to the guests, proposed by Mr. J. Barrit (senior vice-president), was replied to by Dr. G. B. Drummond (president, East Riding Branch, British Medical Association). Guests included the lord mayor of Hull, and lady mayoress.

IRISH NEWS

Students' Bookings.—The attention of pharmaceutical students is directed to the new booking arrangements for all classes beginning in October 1950. Students who desire places should send in their applications to reach the Registrar of the Pharmaceutical Society of Ireland by September 4 and not in March as heretofore.

Lecture on Tablet-making.—Mr. H. Burlinson, Ph.C., gave a lecture entitled "The Principles and Practice of Tablet Manufacturing" to members of the Pharmaceutical Society of Northern Ireland in Belfast on January 18. The president was in the chair and a vote of thanks to the lecturer was moved by Mr. T. A. Gibson.

President "At Home" to Members.—The president of the Pharmaceutical Society of Northern Ireland (Mr. P. R. W. Shinner), was at home to members of the Society on January 16 when a number of films were shown. These included "Take Thou," "Scabies," and "Penicillin Medical Practice." After the meeting Mr. Shinner entertained the members to tea.

Rugby Team's Activities.—The Dublin Chemists' Rugby Football Club visited Roscommon to play the County Roscommon club on January 15 and won by 20 points to 8. On the chemists' side, D. Cagney converted two tries from touch. Coming fixtures are: February 12, Dalkey; February 19, Irish Shell; February 26, County Roscommon; March 5, Seapoint. All games begin at 2.45 p.m. and are played at the Kimmage Grove ground.

Londonderry Dance. — The Londonderry Chemists' Association held its annual dance on January 19. The organising committee consisted of Messrs. J. Mann (chairman), W. J. Taylor (treasurer), T. H. Hamilton (secretary), D. J. Boggs, F. Murphy, A. Williamson, J. Millen and M. J. McAteer. Masters of Ceremonies were Messrs. D. J. Boggs, H. H. Spence and F. Murphy, and the stewards Messrs. J. McKeown, W. Manning, R. T. Watson and J. Agnew, B.Sc.

Dinner to Business Associates. — The directors of Aspro (Ireland), Ltd., gave a reception and dinner to business associates at their new factory at Inchicore, Dublin, on January 19. The guests were received by Mr. C. W. Chesson (managing director), with whom was Senator J. G. Douglas (chairman of the Irish company), Dr. T. A. McLaughlin and Mr. Noel Purcell (directors). Among the guests were Mr. J. J. Roche (president, Irish Drug Association), Messrs. P. C. Cahill, A. D. Davidson, W. G. Groves, Leslie Chance, S. J. Savage, T. B. O'Sullivan, David Murphy, Phil Fahey and Phil McAuliffe.

Examination Results.—In the January Licence examination of the Pharmaceutical Society of Ireland the following candidates were successful:—John P. Burke, Denis G. Costello, Patrick Duffy, Margaret J. Gibbons, Una P. Gleeson, Fionan St. L. Harty, James G. Jordan, John A. McGahan, Edward McGee, Rosaleen Murphy, Thomas A. O'Donnell, William F. Sweeney, Doreen M. Young (all with Honours); Joseph Butler, Patrick G. Coen, Michael J. Cullen, Michael E. Doherty, Philomena Feehan, William J. Fegan, Patricia Flynn, Josephine M. Hassett, Thomas D. Higgins, Brigid Imelda Hogan, Patrick Hughes, Mary F. Keane, Thomas Lyons, Mary McQuinn, James J. Malone, Joan M. Malone, Sean K. Mulholland, Mary P. O'Callaghan, Anne O'Connor, Daniel O'Leary, Joseph Purcell, James Sheil, Edward J. Walsh.

Streptomycin Control Ended. — The Medical Research Council of Ireland, following representations made to it by the Irish Medical Association, has decided to discontinue the control of streptomycin. In a long memorandum setting out his reasons for sanctioning that step the Minister for Health reviewed the various efforts made to control the drug through the Medical Research Council and the drug trade in 1946. The arrangements, he said, finally broke down "because in some cases supplies were brought in from abroad and because certain members of the drug trade had sold to any doctor seeking supplies whether he had the approval of the Council or not." The Wholesale Drug Federation in a reply to the Minister has stated: "the deficiences of the original scheme were obvious for some months before its termination and these were placed before the Department four months before the control was lifted in September 1948. Of the new form of control which has operated since October 1949, the Federation stated it "had that degree of preciseness and official authority necessary to enable distributors to adhere rigidly to its requirements. Since that date not one gm. has been sold without the authority of the Council."

TOPICAL REFLECTIONS

)evelopments in Pharmacognosy

Dr. J. M. Rowson's address entitled Genetics, Cultivation and Pharmacog-osy" (p. 83) showed, as a speaker at a ondon evening meeting on January 12 marked, that pharmacognosy is far from ead. Botanists as well as pharmacognosists resent must have been captivated by this urvey of recent work in a field where the vo sciences meet and perhaps overlap. The ain though not the only interest of the ddress lay, I think, in the details of experi-ents towards locating sources and in-easing yields of alkaloids. The effects of fferent manures on plants and on their ctive principles have already been system-ically studied; in this study ecology and enetics are, I presume, equally concerned. Iention of ecology reminds me that Queen ictoria, when returning from Balmoral, ten ordered a supply of locally grown hamomile flowers. It would be of interest know whether Highland chamomiles are any important respect superior to those own in other parts of the United King-om. Dr. Rowson's observation that cultivation of drug plants is supported by e governments of several European untries and in the American continent" ill be received with mixed feelings. On e scientific side, the more support that n be obtained anywhere for cultivation d assay the better. But for many years st the price lists of our wholesale drug uses have borne witness to the relative eapness of certain drugs from abroad mpared with their British analogues; and e cheaper varieties have sometimes ousted me-grown materials merely on the ound of price.

etail Trade Statistics

While legal experts are arguing in the ess about the effects of electoral law, it hoves those who write for publication to lk warily lest they find themselves in e dock. So I have taken for this para-aph the innocuous subject of retail trade atistics. The Board of Trade records "a arked increase" in sales by retail chem-s during November 1949 (p. 66). It gives e increase over October sales as 11 per nt. for "large-scale retailers," and as 6 r cent. for "independent chemists." Ac-rding to the same authority, the corres-nding figures for November 1948 were 2 per cent. less and 2 per cent. less re-ectively than in 1947. The method adopted for calculation appears to be to divide the country into areas and, after arriving at an estimate for each area, to strike an average. One hopes that these figures, and others of the same type, are sufficiently accurate for practical purposes. Problems of statistical comparison were discussed in considerable detail in "The Times" of January 19 by its industrial correspondent. It is true that the scope of the article was limited to industrial production; but much of what was written there has a wider application. The Central Statistical Office was quoted as stating that "it is impossible to obtain an exact measure, and difficult to obtain even a rough idea, of the comparative levels of production before and after the war." Again, the writer mentions that recent American work in the technique of comparing productivity "concentrates on the effort to compare like with like." It appears to me that, in view of the diversity of goods stocked in a pharmacy, any estimate of rise or fall in sales over a given period can at best be only an approximation.

An Untimely Resolution

The second of the three resolutions passed at a recent meeting of the East Metropolitan Branch of the Pharmaceutical Society (p. 68) desires the Society to appoint "a Branch organiser whose duties shall include stimulating activity in branches that are inactive, securing co-ordination between neighbouring branches, and general responsibility for the good working of the Society's Branch organisation." Whether the Council of the Society will place this resolution on the agenda of the next Branch Representatives' meeting I have no idea; but I submit that the present time is hardly suitable for any such departure. In the first place the powers and functions of the new official would be so wide as to give a totalitarian bias to the Society. While I do not suggest that this is what the promoters of the resolution intended, I have little doubt of the effect. In the second place, responsibility for the good working of the branch organisation is and must remain a function of the Council. For the Council to delegate this function to an official would be an undesirable step. It may have escaped the notice of the East Metropolitan Branch that the Council has, and for many years has had, an Organisation Committee.

Xrayser

DEATHS

ALDERWICK.—On January 21, Mr. Francis Ralph Alderwick, chairman and managing director of Herbert Ferryman, Ltd., wholesale chemists, Southampton, aged fifty. Before taking over the business of Messrs. Ferryman in 1935, Mr. Alderwick had represented J. C. Eno, Ltd., in the South of England for many years. He was actively interested in local affairs in Southampton, was for some years a director of the Southampton Chamber of Commerce and served on the South Western Price Regulation Committee. He was chairman of the National Farmers' Union Show Society, Ltd.

DAVIES.—On January 7, Mr. John Davies, M.P.S., 14 Dunraven Street, Tonypandy, Glam. Mr. Davies qualified in 1899.

GILMOUR.—At Lily Bank, 27 Townhill Road, Dunfermline, on January 17, Mr. John Gilmour, Ph.C., recently of 76 Chalmers Street, Dunfermline. Mr. Gilmour, who qualified in 1899 and passed the Pharmaceutical Chemist examination in 1904, joined his father in business and succeeded him as principal in 1928, retiring in 1945. For many years he was divisional secretary of the Pharmaceutical Society, and for three years chairman of the Edinburgh and East of Scotland Branch. In 1913 Mr. Gilmour began a long connection (lasting almost continuously until 1937) with the board of examiners in Scotland, of which he was chairman twice, on each occasion for a period of two years. He was an occasional contributor to the evening scientific meetings of the Society in Scotland, and served terms of office as secretary and chairman of the Edinburgh Insurance Committee. Despite his many business calls, Mr. Gilmour found time to serve the community in many ways. He was session clerk and for a time organist of Erskine Church, Sunday School superintendent, superintendent of the Band of Hope, and editor of the "Church Quarterly Record." From 1941 he was a lay reader. A frequent speaker at Brotherhood meetings, he was also an active member of the Young Men's Christian Association and worker for the Temperance movement. Mr. Gilmour is survived by his widow, two sons and two daughters.

GRAHAM.—On January 5, Mr. William Benjamin Graham, M.P.S., 38 Barnehurst Avenue, Barnehurst, Kent. Mr. Graham qualified in 1922.

GUTHRIE.—At an infirmary, on Janua 21, Mr. Robert Guthrie, M.P.S., 4 Sandyhills Road, Glasgow, E.2. M Guthrie qualified in 1903.

HAWKINS.—On January 1, Mr. Hen George Hawkins, M.P.S., 8 Elm Garde Mitcham, Surrey, aged seventy-six.

HAWORTH.—In hospital, on January 1 Mr. Harold Haworth, M.P.S., 5 Egert Road, Monton, Eccles, Lancs, aged sixt A native of Bolton, Lancs, Mr. Hawor qualified from the Manchester School Pharmacy in 1914. He was pricing supe intendent to the Manchester and Salfo Insurance Committee from 1915, a under the Joint Pricing Committee f England from 1948. He was secretary the Salford Pharmaceutical Committ and a member of the Manchester a Salford Pharmaceutical Association. Manchester colleague writes: Mr. Hawor was particularly successful in the pricin sphere, and his bureau could always ranked among the best in the country. was scrupulously fair in his dealings wi Insurance Committees on the one ha and chemist contractors on the other. a post fraught with difficulty he retain the absolute confidence of all pharmacis He frequently lectured on his subject, a could usually supply the answer to t knottiest of pricing problems. Mr. Hawor is survived by his widow and one daught

MACDONALD.—On December 29, 194 Captain Bernard George MacDonal Alexandra Hotel, Bridgend, South Wal formerly a representative of Arthur Cox & Co., Ltd., Brighton, aged sevent two.

MILLER.—At 3 Wyngate Road, Ha Ches, on January 20, Mrs. Kate Ili Miller, wife of Mr. Thomas Miller, M.P. When the British Pharmaceutical Co ference met in Manchester in 1931, M Miller was secretary of the Ladies' Co mittee.

PERRÉDÈS.—Recently, Mr. Pierre E Felix Perrédès, Ph.C., The Pharmacy, Hi Street, Kessingland, Suffolk, aged sevent six. Mr. Perrédès had been in business a chemist at Lowestoft for thirty-eig years. A native of Jersey, he started business near the Triangle at Lowesto Previously he had been chemist and bota ist with a firm of seed merchants and w a pioneer of seed testing. He was bomb out of his business in Regent Roa

owestoft during the 1939-45 war, and ter opened other businesses at South owestoft and Kessingland. He is survived his widow and two sons, one of whom, r. Paul Perrédès, was associated with his ther in the business.

POLLARD.—At Dewsbury, recently, Mr. den Pollard, M.P.S., 24 Bennett Lane, tley, Yorks, aged forty-nine. Mr. Pollard alified in 1921. In 1927 he was reonsible for opening the drug department the Dewsbury Pioneer Industrial Society, d., and held the position of superintent chemist from that year. He was vicesident of the chemists' branch of the ational Union of Co-operative Officials. r. Pollard is survived by his widow and e son.

ROBINSON.—On January 20 Mr. Richard rdy Robinson, M.P.S., 1 Thomas Street, ellingborough, Northants, aged eightye. Mr. Robinson went to Wellingborough ty years ago as assistant to Mr. F. nco, Market Street. In 1907 he took over partnership in the business, becoming proetor four years later, and retiring in 1938 er having been connected with pharcy for fifty-six years. He was secretary the Northants Pharmaceutical Comttee and served as chairman for one year the County Insurance Committee. He o represented the county committee on West Midlands Joint Insurance Comttee. Mr. Robinson was a well-known emason. He is survived by two ghters.

TIRRELL.—At his home, 13 Market uare, Hanley, Staffs, recently, Mr. John rell, M.P.S., aged eighty-seven. Mr. rell, who was believed to be one of the est chemists in the Potteries, qualified 1885. He had his pharmaceutical train at Dr. Muter's College, London, and ened a business in Hanley upon qualify. He was a member of the Menturia dge of Freemasons and for twenty-eight rs. until his resignation in 1930, a urchwarden at St. Luke's Church, Welgton, Hanley, in 1948 contributing £100 ards the restoration of the church. Mr. rell had for some years suffered from ing eyesight and when no longer able read persuaded friends to read to him. is survived by a daughter.

WALTER.—Recently, Mr. Frank Henry lter, Marazion, Cornwall, aged eighty. Mr. Walter, who qualified as a chemand druggist in 1893, was formerly in iness at Powderham Road, Newton Ab. Devon, and at Penzance, Cornwall.

INQUESTS

Doctor Drug Addict.—At a Birmingham inquest, recently, on Dr. John Joseph McKenna, of Hockley, it was stated that the dead man had been addicted to drugs for a long time and had issued prescriptions that were unreadable. A verdict of death by misadventure was recorded.

Suicide Verdict.—At an adjourned inquest at Market Drayton recently, a verdict of "suicide while the balance of his mind was disturbed" was returned on Wilfred Henry Morgan, M.P.S., aged fifty-nine, the cause of whose death had been confirmed as cyanide poisoning.

Overdose of Paraldehyde.—At an inquest at Market Bosworth recently it was stated that the subject of the inquiry, a miner, had been given by a hospital trainee a dose of fl. oz. 4 instead of dr. 4 paraldehyde. Giving a verdict of misadventure, the coroner said: "Trainees should not be allowed to administer such medicine."

Faulty Oxygen Machine.—A leak in an oxygen machine while a Hayes, Middlesex, woman was undergoing an operation at the Samaritan Hospital for Women was blamed for her death at an inquest at St. Pancras, London, recently. The coroner said that death was due to pulmonary collapse while under an anæsthetic caused by a hidden fault in the machine. He recorded a death by misadventure.

Death from Iron and Ammonium Citrate.—At an inquiry in Glasgow, recently, into the death of a twenty-six-year-old woman who died in Victoria Infirmary, Glasgow, on October 25, 1949, it was stated that she had taken a mixture of iron and ammonium citrate and whisky because she was afraid that her unborn child was going to be a "blue baby." She became ill and was taken to hospital two days later. Mr. Alexander Guthrie, M.P.S., Shettleston Road, Glasgow, gave evidence that on October 22 he had made up sixpennyworth of iron and ammonium citrate—about ½ oz. Dr. J. A. Imrie (chief medical officer, Glasgow Police) said that iron taken in large quantities could cause death. "In the few cases in which it has caused death it has been the death of children . . . I cannot find any similar case in adults." The jury found that the woman had consumed ½ oz. of iron and ammonium citrate, and that her death was caused by toxic hepatitis. They returned a formal verdict.

LEGAL REPORTS

"Discharged Absolutely."—At Marylebone, London, magistrates' court, recently, a member of the Pharmaceutical Society, resident in North London, was discharged absolutely, on payment of 40s. costs. The charge was of embezzlement, and he admitted that, while employed as manager for Timothy Whites & Taylors, Ltd., at Camden High Street, he had embezzled sums of 8s. 3d., 10s. 3d., 18s. 0½d. and 5s. 1d. A detective-sergeant told the magistrate he had been unable to find any reason for the accused's behaviour. A qualified chemist and a married man with two children, he had been with the firm since 1942, though he would now lose his post.

Poison Through Unauthorised Sellers.—A case in which a retailer was summoned under the Pharmacy and Poisons Act, 1933, and a wholesaler under the Summary Jurisdiction Act, 1848, both in connection with the supply and sale of morphine in Gee's linctus, came before the magistrates at Southend-on-Sea on January 20. Herbert George How, 2A Belfairs Parade, Leigh, was charged with selling the preparation though not an authorised seller of poisons. The wholesaler, May Roberts & Co., Ltd., 47 Stamford Hill, London, N.16, was charged with aiding, abetting, counselling and procuring the offence. At the hearing the solicitor for the Pharmaceutical Society applied for an adjournment on the ground that notice of appeal had been entered in a similar case (see *C. & D.*, January 7, p. 10), but the application was opposed on behalf of Messrs. May, Roberts on the ground that the Society had had notice of that appeal before the present summons was issued. The magistrates refused an adjournment. After evidence of purchase and analysis the retailers' plea of not guilty was withdrawn and a plea of guilty was entered. The magistrates imposed a fine of £3, with £2 2s. costs. In the case against May, Roberts & Co., Ltd., evidence was called showing that the company issued a special type of order form to non-qualified customers and that such order forms on receipt were subjected to scrutiny by a senior employee. Where a preparation within the Poisons List appeared in any such order it was struck out and not supplied. In the present case the retailer had twice, in the latter part of August 1949, ordered an 80-oz. Winchester of Gee's linctus: both orders had, in accordance with usual practice, been struck out. A third similar order dated September 9, 1949, had been missed by the scrutineer and as a result was fulfilled. The container bore a label carrying the word "Poison." It was admitted by an inspector for the Pharmaceutical Society that the retailer could lawfully have sold the preparation to a doctor or hospital or for export. Mr. H. Glyn Jones, K.C., who appeared for Messrs. May, Roberts, argued that, in order to succeed the prosecution must prove an intent by the wholesalers that the retailer should sell the preparation contrary to the Pharmacy and Poisons Act. It was obvious in the present case that no such intent could exist as it was purely by inadvertence that the company had supplied at all. If the prosecution was right it would mean that wholesalers who took the trouble to distinguish between orders from chemists and orders from non-qualified men were in a worse position than those who made no inquiry as to the source of orders. Further, even if the wholesaler had knowingly supplied a non-qualified retailer with a poison it did not follow that that retailer must necessarily commit an offence by reselling it, since a sale to a doctor or hospital or for export was perfectly lawful. For the Society it was contended that intent was not a necessary ingredient of the offence. The magistrates dismissed the summons and awarded the company £10 10s. costs.

BUSINESS CHANGES

P. C. Cahill & Co., Ltd., Dublin, have appointed Mr. T. J. Banks, M.P.S.I., as secretary to the company.

Miss Mona McDermott, M.P.S.I. has taken over the Medical Hall, Main Street, Elphin, co. Roscommon, formerly owned by Mr. J. McAuliffe, M.P.S.I.

Mr. F. M. Snowdon, M.P.S., has acquired the branch pharmacy of Dennison & Graham at 132 Manor House Road, Newcastle-on-Tyne.

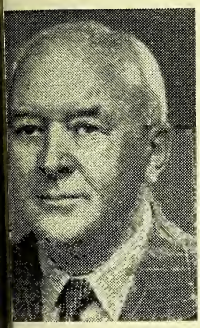
Monsanto Chemicals, Ltd., have acquired Fulmer Hall, Bucks, and intend converting the property into a research centre (Picture, p. 119).

The correct telephone number of Nottingham City Hospital (one of the centres holding emergency supplies of anthrax, botulism and snake-bite serums) has been notified as being Nottingham 66292.

PERSONALITIES

Mr. S. A. Heald, O.B.E., has been ppointed public relations and principal ress officer in the Ministry of Health om January 24.

Mr. Ernest Charles Pearce, who has een elected president of the Proprietary Articles Trade Association (*C. & D.*, January 21, p. 78), has represented Horlicks, Ltd., Slough, on the manufacturers' section of the Council since January 1934. He has served for several years past as a member of the executive and for the past three years as vice-president and chairman of the manufacturers' section of the Council. Messrs. Horlicks are o keenly interested in the Grocery Proietary Articles Council, of which Mr. arce is, and has been for some time, airman. A native of and resident at eading, he commenced his business reer in a solicitor's office. In 1916 he ined Messrs. Horlicks as assistant to the ice manager, whom he succeeded in 27. He is now personnel manager of e company. From early in 1946 until ptember 1947, Mr. Pearce was a memr of the Southern Regional Business ading Committee, working under the spices of the Ministry of Labour and tional Service Appointments Office, ading, for the resettlement of ex-Service n in business; he now serves on the visory panel for the business training of Regular members of H.M. Forces.



Mr. John Gilmour, M.P.S., organiser the drug and fine chemical trades for Union of Shop Distributive and Allied orkers and secretary of the industry's nt trade union committee, has retired er twenty-eight years' service.

Mr. George Harold Lloyd-Jacob, C., who acted as chairman of the Comtee on Resale Price Maintenance, has n appointed a High Court judge to deal h patent cases. Mr. Lloyd-Jacob, who k his seat on the bench for the first time the King's Bench Division on January receives a knighthood on his ointment.

NEW COMPANIES

Krauth Chemicals, Ltd. (P.C.).—Capital £500. To acquire the business of a manufacturer of a dental cleaning product called Denclen. Bernard F. Krauth and Michele Krauth, directors. R.O.: 7 Hersham Road, Walton-on-Thames, Surrey.

Cleansmore Products Co., Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of cleaning materials of all kinds, chemists, druggists, etc. Norman L. Moggs, Hilda A. Moggs, directors, 40 Russell Street, Reading.

A. A. Abbott (Chemists), Ltd. (P.C.). —Capital £1,000. To carry on the business of manufacturing chemists, druggists, opticians, etc. First directors are to be appointed. R.O.: Town Hall Chambers, 374 Old Street, London, E.C.1.

Jamfs B. Williams Co. (England), Ltd. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists and druggists, etc. First directors are not named. Solicitors: Slaughter & May, 18 Austin Friars, London, E.C.2.

J. C. Fay & Co., Ltd. (P.C.).—Capital £100. To carry on the business of manufacturing, pharmaceutical and general chemists, etc. John C. Fay and Dorothy J. Eastwood, M.P.S., directors. R.O.: 20 Spotland Road, Rochdale.

Staple Essential Oils & Chemicals Co., Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of oils, chemicals, etc. Desider Engel, Valerie Engel and Maurice O'Regan, directors. R.O.: Sardinia House, Sardinia Street, London, W.C.2.

Company News

British Chemicals & Biologicals, Ltd.—Group trading profit for the year to June 30, 1949, amounted to £181,813, compared with £89,591 in the previous year, and net profit to £16,069 (£3,723). The board is unable to recommend a dividend on the ordinary stock; a like decision was made last year.

Fisons, Ltd.—Group trading profit for the year to June 30, 1949, amounted to £1,163,039, compared with £1,317,374 in the previous year, and net profit to £222,639 (£223,167). A final dividend of 9½ per cent., making 12 per cent. for the year (same) on the old ordinary capital and a dividend of 2½ per cent. on the ordinary stock issued in 1949 are recommended.

TRADE NOTES

Soluble Alginate Powder.—Bonniksen & Cronk, Ltd., 26 Waterloo Road, Epsom, Surrey, offer sodium alginate in the form of a readily dispersible powder.

Additional Pack.—From February 1 an additional pack (500 tablets) of Minacedin is being introduced by the manufacturers, H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2.

In Short Supply. — Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, announce that, owing to temporary interruption of supplies, tablets of Bellergal and Femergin will be in short supply for some weeks. Urgent orders, however, can be dealt with.

Price Down, Margin Up. — Domestos, Ltd., College Works, Newcastle-on-Tyne, announce that, coinciding with a reduction in the price of Stergene, the profit margin to retailers has been increased. An additional bonus is made for handling the empties.

Formulas of Veterinary Proprietaries. —Bob Martin, Ltd., Southport, have compiled a 36-page booklet containing the formulas of the Bob Martin and Tibs preparations. The booklet is being issued to chemists and veterinary surgeons throughout the country.

Toilet Tissues. — Freeder Bros. Paper Mills, Brimsdown, Enfield, Middlesex, have introduced in a carton-box printed in two blues, Florine petal-soft tissues, which are folded to enable easy opening for instant use and for ready withdrawal from the box individually. The tissues are also available in pastel shades of pink, blue, green and peach, packed in special boxes each containing tissues of two colours, with tabs both top and bottom to enable sheets of either colour to be withdrawn as desired.

Injectable Solution of T.E.A.B.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, have made available Etrium brand tetraethylammonium bromide in a 25-c.c. multi-dose bottle of 10 per cent. w/v injectable solution. Tetraethylammonium bromide reduces the tone of the artery wall with a resultant fall in systolic and diastolic blood pressures, and has proved useful in the treatment of certain vascular disorders, particularly as an emergency measure.

New Horticultural Products. — Shell Chemicals, Ltd., 112 Strand, London, W.C.2, are introducing a number of new horticultural specialities which will be ava able for the coming season. They include :- Shell liquid derris for the destruction aphides, caterpillars, thrips, red spide etc. (the product is packed in ½-pt. tin make 5-gall. of spray, and quart tin make 20 gall. of spray); and Shell lin sulphur (control for fruit scab, mildew, r spider and big-bud mite on blackcurrar in 1-gall tin. It is also announced by t company that Shell weed killer has be greatly increased in strength, giving doub the previous coverage at no higher price.

Cosmetics Prices. — RICHARD HUDNU Ltd., Power Road, London, W.4, sta that, following the recent negotiations b tween the Toilet Preparations and Perf mery Manufacturers' Federation and t Board of Trade, they have carefully co sidered their prices and costs. They co sider that the prices of Three Flowe beauty aids are reasonable, and can s no justification for any reduction in pric at present, but, as a gesture, are r ducing the prices of Three Flowers lipsti and solid brilliantine.—PICOT (SALES), LT 168 Hammersmith Road, London, W state that, as it has always been th strict policy to give the finest value f money, they are unable to make any r duction in the prices of their goods.

Streptomycin Supplies.—Chemists in t Guildford, Dorking, Horsham, Farnh and Godalming areas may order ster streptomycin injections and/or sterile pe cillin injections from DAN CLARE, M.P. Cranleigh, Surrey, (Telephone: Cranlei 207) or 17 High Street, Godalming, Surr (Telephone: Godalming 1344). Immedia delivery can be arranged within a twen mile radius.—Within three months streptomycin's becoming available on p scription, GLAXO LABORATORIES, LT Greenford announce a reduction in pri Developments at the company's two nort ern factories have resulted in adequa supplies being available in Britain with small but increasing surplus for export.

Price Lists.—The January 1950 pri list of CIBA LABORATORIES, LTD., Horsha Sussex, now available, is a thirty-two pa booklet, strung to hang. It includes no on the therapeutic properties, princi indications, use and dosage, packages a composition of the company's speciali Messrs. Ciba point out that the introd tion of hormone emulsions, listed there has been postponed.—The January 19

and B (supplementary) lists of EVANS EDICAL SUPPLIES, LTD., Speke, Liver-ool, 19, have been issued.

Showcards.—EVANS MEDICAL SUPPLIES, TD., Speke, Liverpool, 19, have issued showcard for lamb dysentery serum and accine. Also available are leaflets written ecially for farmers, with space for the harmacist's name and address. Applica-on should be made to the home sales epartment of the company.—A new show-rd for Adexolin products has been issued GLAXO LABORATORIES, LTD., Greenford, iddlesex. The card is designed to illus-ate the contrasting seasons of summer d winter to reinforce the slogan "In ery season—your defence"; it is printed four colours, is strutted to stand, and easures 9 in. x 6½ in. Sales points for the oducts are given on the back of the card. VENO DRUG CO., LTD., St. Helens, ncs, have made available (through their presentatives or direct) a new showcard Veno's Lightning cough mixture. The rd, in full colour, and strutted to stand, easures 11 in. x 7¾ in.

Bonus Terms.—Attention is drawn on other page to bonus terms available m ALLEN & HANBURYS, LTD., Bethnal een, London, E.2, for Haliborange, riflex, Allenbury's diet and Allenbury's ilblain stick.—Until March 31 bonus rcels of Evans Blue Cross baby powder available from EVANS MEDICAL SUP-IES, LTD., Speke, Liverpool, 19, each ntaining 3 doz. tins, three free tins, e showcard and fifty weight cards incor-rating a sample of the baby powder.—ALEX, LTD., Hale End, London, E.4, e details on another page of bonus par-s of Halex combs.—A special spring nus concession of 1s. per doz. off usual ces is offered by JAFFAJUCE, LTD., 87 gent Street, London, W.1, on all orders ced between January 30 and March —A tabulated list of "best terms" on ich to obtain Silvikrin products lowing an extra discount of 12½ per t. on orders of 20s. or over) is given an announcement elsewhere in this e by PRICHARD & CONSTANCE (MANU-CTURING), LTD., North Circular Road, ndon, N.W.10. — Wholesalers in the tish Isles have been given details of a count scheme relating to Rentan rat and use killer, issued by RENTOKIL, LTD., ool Lane, Fetcham, Leatherhead, Sur-.—A bonus on Flit insecticides, avail-e until April 29, is given by STEMCO, D., 128 Albert Street, London, N.W.1.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Glaxo Laboratories, Ltd.*, Casinal (calcium caseinate) protein food, 8-oz. tin, 33s. 7d. doz., 3s. 6d. (exempt).

Alterations to Protected List (Part 1).—*J. G. Ingram & Son, Ltd.*, Omega teat, 52s. 6d. gross, 6½d. (exempt).

Thos. Kerfoot & Co., Ltd., Vapex inhalant, 20s. 6d. doz., tax 33⅓ per cent., inclusive retail price 3s.; three doz. 20s. doz.; twelve doz. 19s. 6d. doz. Vapex inhaler, 9s. 9d., tax 33⅓ per cent., i.r.p. 1s. 6d.; six doz. 9s. 6d. doz.

Organon Laboratories, Ltd., Lynoral tablets, 0.01-mgm., tube of 25, 20s. doz., 2s. 6d.; bottles, 100, 70s. doz., 8s. 9d.; 500, 25s. 8d. each, 38s. 6d.; 1,000, 50s. each, 75s. (all exempt from tax). Lynoral tablets, 0.05 mgm., bottles, 25, 30s. doz., 3s. 9d.; 100, 106s. doz., 13s. 3d.; 500, 40s. each, 60s.; 1,000, 78s. each, 117s. (all exempt).

Smith, Kline & French International Co. (distributors: *Menley & James, Ltd.*), Dexedrine tablets, 5-mgm. bottles of 24, 38s. doz., 4s. 2½d.; ampoules, 10-mgm., 1-c.c., box of six, 129s. doz., 12s. (exempt from tax).

Wright, Layman & Umney, Ltd., Wright's coal-tar vaporising liquid, large size, 38s. 3d. doz., 4s. 3d. (exempt).

Allen & Hanburys, Ltd., Lysantol pastilles, 2-oz. tin, 11s. 4d. doz., tax 33⅓ per cent., inclusive retail price 1s. 9d.; Torch brand pastilles, 9s. 5d. doz., tax 33⅓ per cent., i.r.p. 1s. 6d.

Elliman, Sons & Co., Ltd., Increased prices, February 1. Elliman's athletic rub, 3-oz., 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 8d.; 10-oz., 30s. doz., tax 33⅓ per cent., i.r.p. 4s. 2d. Prices in Northern Ireland, February 1, Universal embrocation, 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 7d.; 34s. 4d. doz., tax 33⅓ per cent., i.r.p. 4s. 9d.; Royal embrocation, 14s. 9d. doz., tax 33⅓ per cent., i.r.p. 2s.; 27s. 6d. doz., tax 33⅓ per cent., i.r.p. 3s. 8d.; athletic rub, 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 8d.; 30s. doz., tax 33⅓ per cent., i.r.p. 4s. 2d.

Roche Products, Ltd., Citro-Thiocol cough syrup, 4-oz., 24s. doz., tax 33⅓ per cent., i.r.p. 3s. 8d.

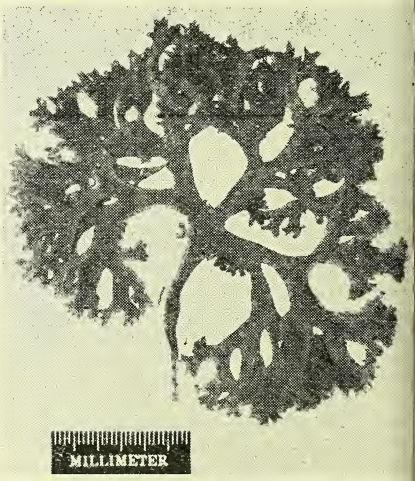
Thermogene Co., Ltd., Thermogene medicated wadding, 13s. doz., tax 33⅓ per cent., i.r.p. 1s. 9d.; 29s. 3d. doz., tax 33⅓ per cent., i.r.p. 3s. 11d.

"BRITISH AGAR"

How war-time research on British seaweeds has resulted in the development of a new industry in Britain

WHEN the second world war cut off from Britain its supply of Japanese agar the vegetable drugs committee of the Ministry of Supply initiated an investigation into British seaweed sources of agar, to protect the public health service, a large consumer for bacteriological purposes. Professor Lily Newton (University College of Wales, Aberystwyth) supervised the botanical side of the investigation, and Drs. S. M. Marshall and A. P. Orr (Scottish Marine Biological Station, Millport) the chemical side, much of the work being done voluntarily and during university vacations. The development of the industrial extraction process was undertaken with the help of Fine Industrial Commodities, Ltd., Acton Lane, Chase Estate, London, N.W.10, and Paines & Byrne, Ltd., Pabyrn Laboratories, Greenford, Middlesex. The teams' co-operation resulted in the production of an agar which Professor Newton described to the British Association meeting in Newcastle in August 1949 (see *C. & D.*, 1949.II.303) as "excellent" and "suitable for all purposes for which Japanese agar can be used, including bacteriological work." The product is now being made on an industrial scale solely by Fine Industrial Commodities, Ltd. Preliminary observations by the scientific workers during the war show that the red seaweeds *Gigartina stellata* Bat and *Chondrus crispus* (L.) Stackh were like sources of agar, as they were abundant certain coasts, and yielded a promising e tract. British coasts were therefore su veyed to ascertain where those plar occurred in harvestable quantities, and i vestigations were made of the life histo of the plants, the best time of harvestir etc. Chemical examinations showed th both seaweeds yielded about 50 per cent. their dry weight as an extract in the fo of a soft, viscous gel. Untreated, this w not suitable for bacteriological wo (though it had commercial uses). Ho ever, the addition of electrolytes, partic larly potassium chloride, was found to i prove the extract for bacteriological pu poses. A still better product could made by first heating the aqueous extra with potassium hydroxide, and then ne tralising the solution with hydrochlo acid. The best product, however, result from autoclaving the extract with pot sium hydroxide (after which less acid w required for neutralisation, showing th partial hydrolysis had taken place). Tl process is the basis of the manufacturi method (see p. 110). The industrial proc is protected by British Patent No. 5775

A form of Gigartina stellata Batt.

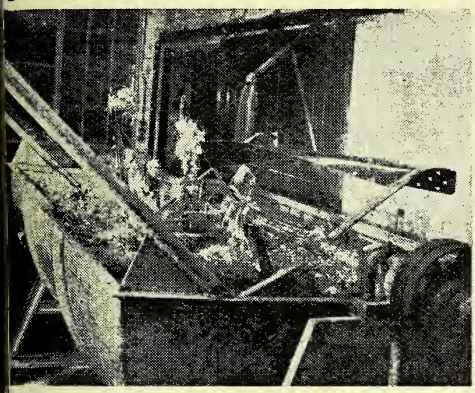


A form of Chondrus crispus (L.) Stackh

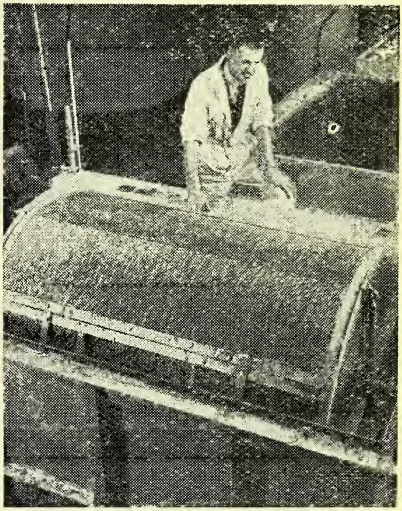
PROCESSES IN PREPARING "BRITISH AGAR"

Red seaweed being treated by a patented method at the factory of Fine Industrial Commodities, Ltd., 96 Chase Estate, Acton Lane, London, N.W.10.

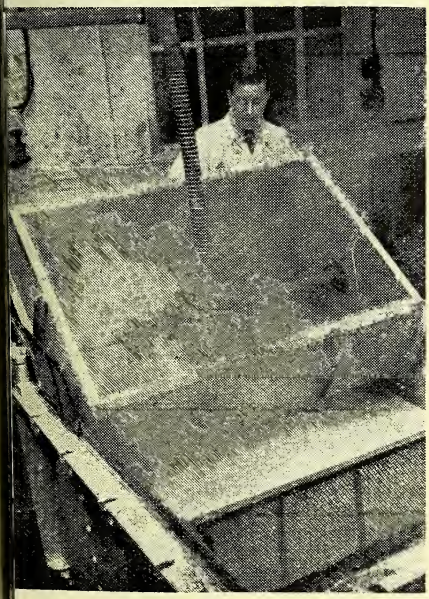
THE seaweed is extracted with a hot aqueous solution and the product converted to "British agar" by heating under pressure with potassium hydroxide, and then neutralising with hydrochloric acid. The dried agar is powdered prior to issue.



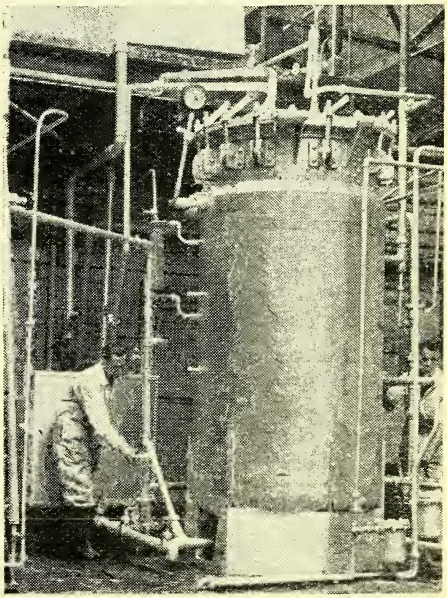
1. The seaweed is first washed in an extemporised bath, the paddles and beaters providing agitation.



2. A revolving circular cage extractor is used for the hot extraction process.



A rocking strainer removes from the liquor the larger particles of organic *debris*.



4. Workers adjust the apparatus used for pressure-heating the chemically-treated liquor.

The final product differs from Japanese agar (agar, B.P.), in being more quickly soluble (it dissolves on stirring with water and heating to 80°C.), giving a more transparent gel, and having lower melting and higher setting points (plates should be poured at about 50°C.). Because of the added electrolytes, however (the mineral fraction amounts to about 30 per cent.), modifications of bacteriological technique are sometimes necessary when the media

Illustration of a plate of "British agar" gel showing its transparency.

used contains inorganic salts. For bacteriological work an optimum concentration is 2.5-3 per cent. A concentration of 1 per cent. produces a firm jelly, however, and for stabilising purposes a smaller concentration is sufficient.

Stable in Neutral Solutions

Little is known of the chemistry of British agar. Solutions of the product can be heated for long periods at *p*H values of approximately 7, however, without appreciable change, but in strongly acid or alkaline solutions hydrolysis, and consequent reduction in strength of the gel, occurs. Acids or alkalis should therefore be added as late as possible before the agar is allowed to set.

Although the war-time survey of Western Scotland showed that *Gigartina* was particularly abundant in the Clyde and other areas of the West Scottish coast, the chief commercial British source of red seaweed is now Western Ireland. The dried and partly fermented weed arrives at the factory in hessian bags. It is first washed with agitation in an extemporised bat (illustration, p. 109), is extracted with a ho mildly alkaline solution (3 per cent. ca cium hydroxide) in a revolving cage ex tractor, and the liquor clarified by passin through a rocking strainer (the rockin action keeping the meshes free from th strained weed), a disc strainer and a stean jacketed filter press. To the clear liqu the requisite amount of potassium hydro ide is added, the product treated in "transformer" with heat and pressure fo two hours, and neutralised with hydr chloric acid, so producing a solution "agar." This is decolorised with activate charcoal, and either spray dried or drie on roller driers and the product ground a fine powder. (Originally the water w removed by freezing, and chipping the i from the separated agar.)

Uses

In addition to its use in the food i dustry and bacteriology, British agar h many uses in pharmacy and cosmetics, f example as an emulsifying agent in th preparation of non-greasy ointment base suppositories, pastilles, etc., and as stabilising agent in tooth-pastes, shavin creams, etc.

During 1949, the output from Fine I dustrial Commodities, Ltd., increased co siderably with the installation of ne machinery, for which the Governme allowed the expenditure of dollars, ar the factory is at present working sev days a week to cope with demands— present chiefly from the food industr Output will be increased again short when plant now being built goes into pr duction. The new industry is importa for its dollar-earning capacity, for th assistance it gives towards making Brita independent of foreign supplies of aga and for developing native resources.

BIBLIOGRAPHY

A Study of Certain British Seaweeds and th Utilisation in the Preparation of Agar, by M shall, Newton, Orr, and others (1949). H. Stationery Office, Kingsway, London, W.C.2.

A Dog's Life.—"Among the sideligh offered in a new book on criminal inves gation is the information that there are least twenty drugs which have been us to restrain or expedite the running of gre hounds. Besides more formidable chemic agents these include Benzedrine inhale oil of lavender, catarrh pills and a sea-sic ness remedy. It must be a hard life for th greyhound.—"Manchester Guardian."

S.W. METROPOLITAN HOSPITALS

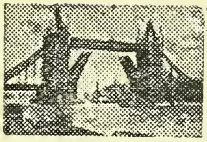
HE South-west Metropolitan Region Hos-tal Pharmacists' Committee has published report which deals with the fifty hospi-ls of the London, Surrey and West Sus-x hospital groups of the South-west Met-politan Hospital Region that are known have pharmaceutical departments in the arge of pharmacists. The report is based information derived from two question-ires issued in the spring and autumn of 49 to each pharmaceutical department. the fifty hospitals, thirty-two are gen-al hospitals, including one fever, and e sanatorium. All of the larger general spitals have out-patient clinics requiring dispensing of more than 20,000 pre-iptions per annum. Some of the medium d smaller hospitals have a higher ratio out-patient prescriptions/beds than the ger hospitals. The other hospitals com-se fourteen mental and four mental de-ency hospitals. In the general hospitals number of technical staff is eighty-r, and in the mental hospitals thirty-six. In the spring of 1949 there were twenty-e vacant posts for pharmacists in the spitals; some of the vacancies were being filled by non-pharmacists. The number of vacancies has since increased. The chief pharmacists of seven general and eight mental hospitals indicated that they considered their establishments to be insufficient. In only two hospitals is there clerical assistance in the pharmaceutical department; some hospitals have not even adequate domestic and portering help. The Committee is of the opinion that pharmaceutical supplies at every hospital should include drugs, dressings and sundries, and that these should be under the complete control of the pharmacist-in-charge. While surgical instruments do not fall into the category of normal pharmaceutical supplies, a similar degree of control should be exercised by the pharmacist if they are handled in his department. It has noted, "with pleasure," the extent of the manufacture of pharmaceutical products. The Committee considers that the views of the pharmacists should be co-ordinated so that:—(*a*) Liaison is increased between different groups; (*b*) optimum use is made of local facilities; and (*c*) maximum efficiency is achieved.

MINISTRY'S APPEAL TO PRESCRIBERS

conformity with a recommendation of Joint Committee established by the ntral and Scottish Health Services uncils (the "Cohen" Committee), chief medical officer of the Ministry Health (Sir Wilson Jameson, G.B.E.), addressing an appeal to doctors, dated uary 20, inviting their co-operation in venting wasteful prescribing under the tional Health Service. The recom-ndation appears to be an interim action the Cohen Committee, which has still issue its report. The letter is in the owing terms:—

r Doctor,

ecent investigations have shown that large sums money are being spent on drugs and medicine doubtful value or on unnecessarily expensive ds of standard drugs prescribed in the National lth Service. The Central and Scottish Health ices Council therefore set up a special joint mittee which consisted of members suggested among others, the three Royal Colleges, the tish Medical Corporations, the British Medical ciation, the British Pharmacopœia Commission the Society of Apothecaries. On the recom-dation of this Committee, the Central Council advised the Minister to send a letter to all ors asking for their co-operation in the pre-ion of wasteful prescribing. The Committee idered that much unnecessary cost was due he prescribing of proprietary brands—particularly those which are widely advertised—instead of standard drugs. Many proprietary preparations do not differ materially from the standard drugs of the British Pharmacopœia, the British Pharmaceutical Codex and the National Formulary and can be ordered just as effectively and at much less expense by their official titles. The National Formulary recently issued by the British Medical Association and the Pharmaceutical Society contains in an Appendix the official equivalents of a large number of proprietary preparations. Doctors should, therefore, before prescribing any proprietary preparations, ask themselves "Am I satisfied that a standard drug or combination of standard drugs cannot be prescribed with equal effect?" The Committee also thought that doctors should, when asking themslves this question, bear in mind that while those who provide general medical services in the National Health Service are required by their terms of service to order "such drugs and prescribed appliances as are requisite for the treatment of any patients"—and that a doctor is therefore free to prescribe whatever drug he considers necessary—the Regulations do provide that action may be taken by the Minister where "investigation shows that the cost is in excess of what was reasonably necessary for proper treatment." The Minister therefore hopes that he will have the co-operation of all doctors in this matter. It is in present circumstances vital that all unnecessary expenditure be avoided—in the provision of appliances and in the quantity of drugs prescribed as well as in the matters dealt with by the Joint Committee.



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OL. CLIII JANUARY 28, 1950 No. 3649

Universities and Technology

NDER the title "A Note on Technology Universities," the University Grants ommittee has reviewed the development technological education in British uniersities, and has made recommendations. s report (H.M. Stationery Office: 4d.), e of the shortest of the kind ever prented to the Lords Commissioners of the reasury, deals chiefly with the scientific quirements of the chemical and other anches of engineering. We regret that emistry and physics have been excluded om the committee's purview: the claim those subjects to attention similar to at accorded to engineering is undeniable. ossibly a cumulative pressure for increased cilities for the vocations enumerated in ragraph 14 of the report accounts for e exclusion.

ays of Increasing Efficiency

Within the limits it has selected, the ommittee has drawn up a concise and cid presentation of the respective parts at universities and industries can play increasing technical efficiency. It points t, for instance, that British universities have adopted what may be described as policy of compromise between the system mmon in a number of Continental couies, where technology does not appear the universities, and the American sysm, where (in the almost complete absence technical colleges) a great range of ork both in technology and in technical udies finds its place in the universities of at country."

The main proposal put forward is that post-graduate activities in technology should "be extended to include some post-graduate instruction as distinct from research." Such post-graduate study should follow a period of not less than two years spent in industry. Provision of support for students—at any rate, we may add, for some students—is essential. For the purposes of the report it is assumed by the Committee that about 250 men a year could be absorbed under this scheme. Post-graduate courses would (it is thought) be best provided as developments of existing faculties of technology rather than by the establishment of new technological institutes, with independent governing bodies, within the universities. The relation between our universities and our industries has often been discussed in the Press in recent years; we welcome this practical contribution to the subject by so distinguished a body.

Fifty Years of State Research

THE jubilee of the National Physical Laboratory is a notable milestone in the progress of State-supported research into sciences and applied sciences. Although the Crown has for long financed scientific institutions —Greenwich Observatory, comparable in some ways with the Laboratory, for example, was founded by Charles II in 1675, the Prince of Wales (afterwards King George V), when opening new buildings of the Laboratory on March 19, 1902, described the Laboratory as "the first instance of the State taking part in scientific research." As he pointed out, the nation was then beginning to recognise that if its commercial supremacy were to be maintained "greater facilities must be given for furthering the application of science to commerce." The function of the Laboratory, which time has shown to have been carried out with credit, was, therefore, to bring scientific knowledge to bear practically on everyday industrial life and "break down the barrier between theory and practice." Like the institution that Sir Oliver Lodge envisaged (based partly on a German model), the Laboratory has aimed at the "very highest quantitative work in all departments of physical

science," and has been distinguished by "all the dignity and permanence of a national institution." The form of dual harness of the Laboratory's management, by which the Royal Society controls the scientific aspects of the work, has doubtless contributed much to the Laboratory's success. Though the checking of national and international standards of mass, etc., may sometimes seem pedantic, it is necessary, and is directly connected with the Laboratory's renowned testing service of measuring instruments used or handled daily in every laboratory and pharmacy.

Exports in December 1949

The value of British exports of all classes of manufactured goods in the last month of 1949 amounted to £153.8 millions, a slight fall on the previous month's daily rate, but well above the level of earlier months. Exports of the chemicals group amounted to £7.04 millions, compared with £6.89 millions in the previous month and £7.34 in December 1948. Manufactured medicines exported in December 1949 rose to £1,587,859 from the previous month's total of £1,250,237, comparing favourably with the value (£1,427,066) a year ago. Proprietary medicines amounted to £379,292, against £350,159 in November, but were about £91,000 below the level of December 1948. Quinine and its salts shipped to overseas markets were valued at £31,374 (December 1948, £33,251) and aspirin at £37,327 (£40,297). Exports of insulin totalled £27,777 (£52,722) and of penicillin, £244,193 (£184,776). Some 4,038 cwt. of ointments and liniments were shipped, valued at £73,789 (£66,538). Principal markets for medicinal products were India, Australia, Egypt, Union of South Africa, British West Africa and New Zealand.

Rise in Toilet Exports

A rise in exports of toilet preparations occurred, reaching a total of £298,425, compared with £282,478 in the previous month and £231,053 in December 1949. An increase in sales of cosmetics was largely responsible for the rise, which totalled £91,830, against £84,237 in November and £81,760 in the corresponding month of 1948. Tooth and denture preparations exported were valued £68,922 (December 1948, £48,075).

Buchu Volatile Oil Standard

The drug buchu, official in the B.P., 191 was omitted from the 1948 pharmacopœi presumably on the grounds that it had lo favour in therapeutics. Following a tim honoured procedure, it was relegated the B.P.C. and is included in the 194 edition of that work. In the B.P., 193 apart from limits for other organic matt and for stems, the only "test for purity in the monograph for buchu was an a content, but later an alcohol extracti test was added by the 1936 Addendu The Codex, however, while leaving th test for stems unchanged (not more tha 5 per cent.) reduces the limit for oth organic matter from 2 per cent. to 1 p cent., and introduces a requirement f volatile oil of not less than 2 per cer in the whole drug and not less than 1 per cent. in powder. Several importers buchu consider that the standard for c content of the whole leaves is t high, maintaining that the average cor mercial sample contains about 1.5 p cent. In the Codex monograph the dri leaves of *Barosma betulina* are said to co tain about 1.5 to 2.5 per cent. of volati oil. Other authorities put it at from 1.3 2 per cent. or from 1.3 to 2.5 per cent.

Dividend Policy Recommendatio

Consultations have recently taken pla between the Association of British Char bers of Commerce, the Federation British Industries, and the National Uni of Manufacturers, on the question of di dend policy in the light of the prese economic situation. As a result, the thr organisations have decided to write to ea of their respective members suggesting t considerations which they should have mind in deciding their policy on distrib tion of profits. The salient facts of t situation are: (1) The nation is living b yond its means; (2) inflation is still a pr sent danger. Devaluation of sterling has the short term intensified it. Excessi Government expenditure and the intole able burden of taxation, together with t inadequacy of supply relative to availab

rchasing power, are the main factors creating and maintaining it: (3) indus- is in difficulty to provide the finance cessary to maintain, let alone improve efficiency; (4) in spite of impressive hievements, costs of many products are gh and competition is growing keener.

ght Policy at Present

To meet these facts, the three organi- ions state, the right policy is: (*a*) A astic reduction in Government expen- ure so as to permit of an appreciable duction in taxation. Resources can then concentrated on the task of producing ore goods at lower cost. Maximum pro- ctivity will not be obtained unless a an has some hope of retaining what he ls to be a reasonable reward for longer harder or more skilled work or for risks ccessfully undertaken; (*b*) taxation on ns put to reserve must be relieved; (*c*) dustry must take its contribution to rbing inflation. The full benefit of im- oved productivity cannot be realised at ce. The advantages of devaluation for e increase of exports must lead to some version of goods from the home market the export trade. This will increase in- tionary pressure.

ll for Continued Restraint

The General Council of the Trades ion Congress have recommended their ions to observe rigorous restraint in ssing wage claims. There is no direct rallel between a stabilisation of basic ges or salaries and a standstill in the tribution of profits. There is, however, many quarters, a psychological connec- n between the two. In normal times it st be right that, after adequate provi- n has been made for other charges, the reased profits resulting from increased nover, better management and in- ased productivity should be reflected in reased dividends. It is conceivable, in- d, even probable, that at existing taxa- n levels, in view of the need to provide of profits more capital to meet higher placement costs, there would be no neral increase in industrial dividends in sent conditions even if production, nover and profits increased. But how- ever that may be, the fact remains that, owing to the action Industry has taken, the amounts distributed in dividends during the last two years have been in the aggregate virtually unchanged. This has undoubtedly had an effect in mitigating inflationary pressures from the side of wages in the last eighteen months. To suggest now a departure from the present practice of moderation and restraint in distributing profits would prejudice the position that has been achieved, would tend to increase the force of prevailing inflation, and would be liable to serious misrepresentation. In these circumstances, the three organisations consider that it is in the national interest that no change should at present be made in the practice of restraint in dividend distribution, and that, unless these circumstances change or new economic factors arise, it would be wise that, when boards of directors of industrial companies come to consider their recommendations to shareholders in the ensuing year, this policy should be continued. That is, therefore, the recommendation they make to their members.

FIFTY YEARS AGO

Pharmacists in the Army

(*From the C. & D., January* 27, 1900)

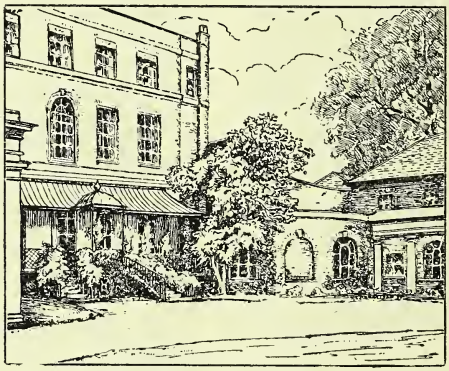
FULL forty men of "Minor" fame have left their native shore
To tend the warriors in the game of Britain and the Bore (Boer).
A brace of pistols in their belts, and measure-glass in hand,
They follow soldiers o'er the veldts. In gold and diamond land
Our brother pill will get his fill of roughing it, I ween,
But lend a hand to those that stand to serve our noble Queen,
The night is dark, there is an arc of light in yonder tent,
And there you see the Pharmacie on 'spensing work intent.
Full many a bloody warrior there lies gasping for his breath,
And druggist-man so spick and span looks forward to his death;
But yet he tries to soothe the brave with inject. morph. galore,
And does his best their lives to save, so diff'rent from the Bore.
The brave pill-punchers at the front get 3s. 6d. a day,
But, chemists, fork your money out and give them better pay.

(*One of the entries to a competition.*)

JUBILEE OF NATIONAL PHYSICAL LABORATOR

A review of the first fifty years of a British institution

THE National Physical Laboratory celebrates its Jubilee at a reception at the Royal Society, London, on January 30. The Laboratory was founded at Bushy House, Teddington, Middlesex (a former Royal residence granted to it by Queen Victoria in 1900). To it were assigned the duties of testing instruments that "cannot be tested under any legal authority"; testing materials; and conducting research, particularly into the determination of physical constants. The Laboratory has subsequently grown so that its buildings now occupy much of its fifty-acre site, while its present importance to pharmacy and the chemical industry may be deduced from the scope of its testing work alone, which covers all types of thermometers (notably clinicals), measuring flasks, pipettes, burettes, hydrometers, and specialised measuring apparatus such as graduated distillate receivers, hæmocytometer pipettes and, on request, other similar apparatus.



Bushy House, South Front
(from a drawing by Lady Robertson, reproduced in a National Physical Laboratory publication).

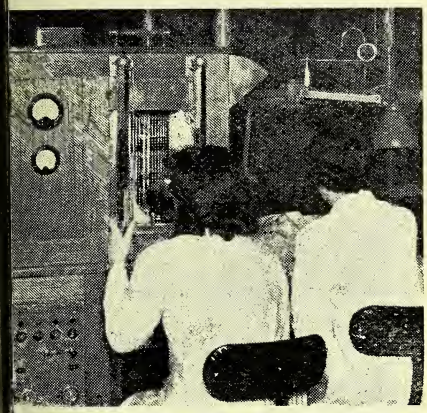
The founding of the Laboratory grew from a suggestion made by Professor (later Sir) J. Ambrose Fleming in 1885 for a British counterpart of the *Physikalisch-Technische Reichsanstalt*—a State-supported institution that had been established in Berlin following the expansion of German industry during the Franco-German War. Sir Oliver Lodge, in a presidential address to the Cardiff meeting of the British Association in 1891, pressed the demand, and asked for "a much larger establishment" than the then existing Kew Observatory and Board of Trade Laboratory—"limited by no speciality of aim nor by the demands of the commercial world" and "invested with all the dignity and permanence of a national institution."

Four years later, when Sir Douglas Galton (president at the Ipswich meeting of the Association) raised the matter again, a committee was formed (which included Professor O. Lodge and Lords Raylei and Kelvin) to report on the possible fur tions and management of such a laborato In 1897 a deputation of scientists in favo of its establishment, and headed by Lo Lister "waited on" the Prime Minis (Lord Salisbury) and received an encoura ing answer. A Treasury Committee w appointed to explore the situation, and t Committee concluded that a public insti tion with the duties that the Laborato was in fact given should be formed. March 16, 18 the Treasury a proved the fir scheme, and t Laboratory w started. Ultima control was vest in the Preside and Council of t Royal Society, a the Society Chemical Indus was among t "technical soc ties" represent on the committ Sir Richard Gla brook, K.C.I K.C.V.O., F.R. was appointed fi director.

While plans w being made to enlarge the buildings at K Observatory (where the work of the La oratory had already begun) and to er new buildings in Old Deer Park, Ri mond, Bushy House became available a was accepted for its accommodation. 1902, alterations to the House were co plete, and the new buildings were open by the Prince of Wales (afterwards Ki George V). Some five years later t Laboratory's testing was specifically limit to investigatory testing (rather than routi testing by contract) except for instrume and their components. Testing of th mometers was transferred in 1910 fr Kew Observatory to the Laboratory. 1918, one year before Sir Richard Gla brook retired from the directorship, t National Physical Laboratory became p of the newly constituted Department Scientific and Industrial Research. T Royal Society continued—and still cont ues—to control the scientific activities.

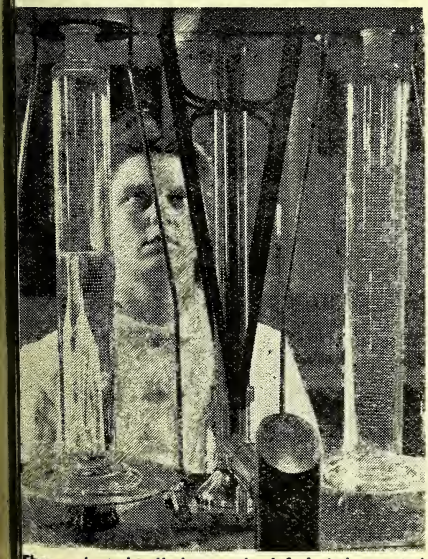
In addition to work of pharmaceutical ıportance previously mentioned, the etrology Division compares every ten ars the British Imperial Standards of the rd and pound with their Parliamentary pies, and verifies the Board of Trade ındards derived from them. The Division so keeps the British national copies of the ternational metre and kilogram and aintains their values, in collaboration with the International Bureau of Weights and Measures at Sèvres, France. Determinations of the densities of solids and liquids are also undertaken. The Physics Division's radiological section, among other work, evaluates the intensity of *x*-rays in international units, the basis of tests on dosemeters used in *x*-ray therapy. The sound section has facilities available for testing all types of deaf aids, etc.

Dr. E. C. Bullard, F.R.S., recently succeeded Sir Charles Darwin, F.R.S., as Director of the Laboratory.

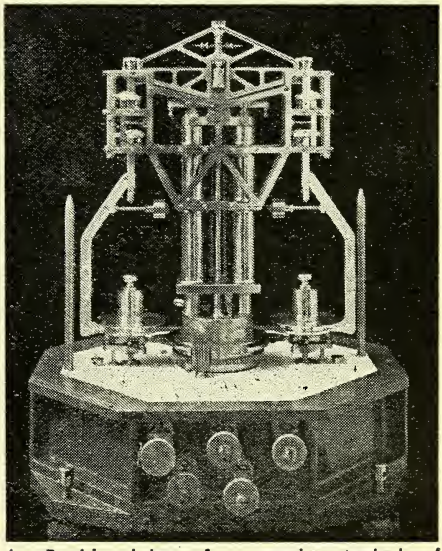


Comparing the readings of a batch of 144 clinical rmometers with standard thermometers at the tional Physical Laboratory.

2. Burettes and other volumetric apparatus being tested in the "glass testing" room of the Laboratory.



The graduated cylinder on the left is being tested accurately weighing the contained water.



4. Precision balance for comparing standards of mass (with cover raised).

THE PROFESSION AND THE STATE

A MEETING of the North Metropolitan Branch of the Pharmaceutical Society held on January 17 was addressed by Mr. H. N. Linstead (secretary of the Society) on "The Relations of the Pharmacist to the State under the National Health Service."

The professions, said Mr. Linstead, had made vigorous, healthy growth over the years as self-governing bodies. Their duty to the State had been to ensure the discipline and competence of their members by examination. Quite apart from what Party was in power, there were signs of ministerial power spreading out over fields that were essentially the responsibility of those national bodies, making it necessary for them to take an independent line. The Ministry of Health, for example, was evincing concern for professional standards and showed an increasing tendency to interfere with those of the professions. A recent definition of advertising of dispensing services had legalised certain things that could be done but were in conflict with the Society's code of ethics.

A dispensing service in health centres, said Mr. Linstead, could only be justified in the large centres, in which a really efficient pharmaceutical department should be planned. The department should be complementary to the local pharmaceutical service and might provide an all-night service or special drugs. Co-operation between local Health and Pharmaceutical Committees was essential in the early stages to avoid duplication of services and expense.

Menace of High Costs

Pharmaceutical services were, he thought, in some danger from the increasing cost of the drug bill. The Minister was bound to compare the cost of dispensing done in retail pharmacies and in the out-patient departments of hospitals, and the result might have a bearing on dispensing in health centres. Man-power in pharmacy was now showing a recovery from the low position it had reached immediately after the war, though there still existed an apparent shortage. The Society, he thought, ought to take some interest in the unqualified assistants before a future Minister of Health considered establishing a qualification for them.

A member asked if the limitation of pharmacies would not ensure more economical distribution of man-power, and MR. LINSTEAD said he admitted that a tradition of State pharmacies had produced high professional standard in certain countries, but he thought that the public in this country would not tolerate State licensing. A vote of thanks was proposed by DR. SWANSTON. The following resolutions were passed for inclusion in the Branch Representatives' agenda:—

That it is the opinion of this meeting that the request of the Branch Representatives' meeting of May 1948 to institute revision courses, either postal or as a supplement to the "Pharmaceutical Journal," should now be implemented.

That it is the opinion of this meeting that, in view of the present system of "leapfrogging" business, to alternate Branch Representatives' meetings, and to keep branches advised as to the action, if any, taken by the Council in connection with resolutions adopted by a majority vote, a progress report be given at the summer meeting and that questions be answered relative to such resolutions.

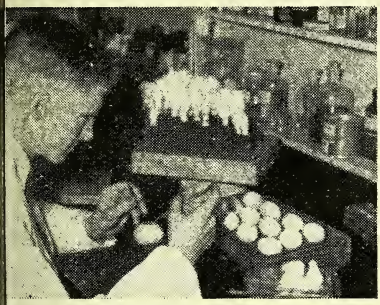
LONDON'S HEALTH IN 1949

A PRELIMINARY report on London's health in 1949 issued by the County Medical Officer of Health gives the following provisional statistics for the year:—Birth rate 16.9 per 1,000; death rate, 11.9; rate of infantile mortality, twenty-eight per 1,000 live births (the lowest ever attained in London); neo-natal mortality (i.e., of children under four weeks), 16.5 per 1,000 live births; maternal mortality, 0.78 per 1,000 live and still births. No death from puerperal sepsis was registered. Deaths from epidemic diseases were as follows:—Measles (11), whooping cough (25), scarlet fever (nil), diphtheria (7), typhoid fever (3), infantile diarrhœa (106), poliomyelitis (55).

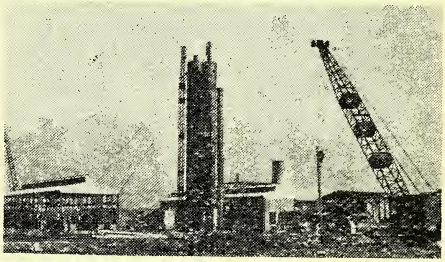
Diphtheria is slowly being overcome as a killer of children, thanks to the immunisation campaign. Pre-war, there were 7,500 cases a year and 250 deaths. In 1949 there were only just over 200 cases. During the year 52,300 were immunised against diphtheria. The infantile diarrhœal death rate was the lowest ever recorded but the condition continues to be a serious menace to child life, and research into its causation and prevention is in progress. Poliomyelitis flared up again with an incidence almost as great as in 19[illegible] and a similar mortality (7 per cent. of cases). The aftermath of paralysed limbs in those who recover presents a serious problem not only to the individuals but to the community. Notifications of tuberculosis increased to over 6,000.

BECOME LABORATORIES.—Fulmer Hall, Bucks, which has been acquired and is to be developed by nsanto Chemicals, Ltd., as a centre for research, in addition to the Nickell Laboratories, Ruabon.

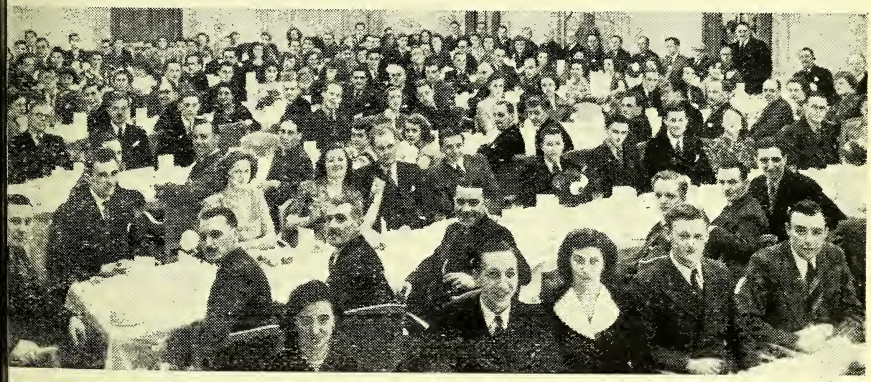
NEWS IN PICTURES



MON COLD RESEARCH.—Inoculating a fer- hicken egg with common cold virus obtained volunteers at research unit, Harvard Hospital, bury, Wilts, as part of the unit's investigation.



CHEMICALS FROM PETROLEUM.—Hoisting a fractionating column in position during construction work on the new refinery site of Shell Chemicals, Ltd., at Stanlow, Ches, for crude oil processing.



FFS AT DINNER.—The annual staff dinner of Biddle, Sawyer & Co., Ltd., and Gordon, Woodroffe o., Ltd., was held in London on January 2. Over 190 were present, only one of whom (Mr. Oppe, Industrial Finance Corporation) was a visitor. The illustration gives a general view of the tables.

PHARMACY IN 1900

By John Rae

AT the threshold of another half-century it may possibly be of interest to record from contemporary journals some of the sidelights of the year 1900 that remain of interest to pharmacists. The president of the Pharmaceutical Society at the beginning of the year was William Martindale, followed later in the year by G. T. W. Newsholme. The secretary and registrar was Richard Brembridge.

Britain at War

THE CHEMIST AND DRUGGIST, on p. 10 of its January issue, printed a proclamation by the Queen on trading with the enemy—a stern reminder that Great Britain was at war in South Africa. War notes were published each week, and numerous photographs of volunteers in the uniform of the army of the day were printed. Several pharmacists wrote accounts of damage and conditions in the war area. In Paris was held the Universal International Exhibition, at which many British manufacturers exhibited; the photographs of some of the stands in the ornate Victorian style of the period make a striking contrast with the modern British Industries Fair. Glancing through the pages of issues of that time one's eye catches many famous names. Sir John Lubbock was mentioned in the New Year's honours, and Signor Marconi lectured on wireless telegraphy at the Royal Institution. For some reason, not perhaps appreciated at the present day, contributors broke in to verse on every possible occasion. Prominence was given to photography, which was even then an established side-line of the retail pharmacist.

On the scientific side, an interesting paper was published on the manufacture and filling of gelatin capsules; and several notes were given on dispensing problems —a useful feature that might with advantage be reintroduced at the present time. It is of interest that deaths attributed to opium and its derivatives amounted to the startling figure of 141 in twelve months. In the political field the Companies Bill was of great importance.

The "Pharmaceutical Journal" of that year contained illustrations of the School of Pharmacy class, and of its drill class—another reminder of the war in South Africa. Judging by the photographs, the students seem, on an average, older than those of today, but that may be due to th mode of dress; fashions of the times ar well illustrated in a photograph of Henle regatta, showing the ladies with was waists and large hats, the men in flannel with caps or boaters.

In an address to the Glasgow Chemist and Druggists' Assistants' Association, J. I Taylor advocated the taking over by th State of the professions of medicine an pharmacy and foreshadowed the druggi as a civil servant. A good account of gol beating and the manufacture of gold lea serves as a reminder that silvering pil was a frequent operation and that, fo special patients, gold leaf was ordered. Th volume of the "Journal" contains n papers of great importance. The 189 Pharmacopœia was only two years old an was still subject to criticism. Amongst th authors we find such names as Bird, A cock, Holmes, Umney, Rutherford Hil etc. The chief interest was in crude drug the students' column featuring materi medica of the Pharmacopœia. One wel illustrated article was on "Insects whic Infect Crude Drugs"; others dealt wit myrrh, balsam of Tolu, the assay of ipeca cuanha, belladonna, and nux vomica. Ed mund White wrote on ammonium carbon ate and aromatic spirit of ammonia. A unusual paper reprinted from the "Amer can Journal" was "The Assay of Drug by the Living Plant." (The roots of youn seedlings were placed in different alkalo dal solutions of varying strengths, the rat of growth being measured and compare with controls.)

A Promise of Progress

The "Yearbook of Pharmacy" record that the British Pharmaceutical Confe ence met in London under the presidenc of E. M. Holmes, who took as the subjec of his address "The Progress of Pharmac during the Century," concluding with th words "The history of the closing centur indicates that scientific progress may b expected to be increasingly rapid in th coming one." At the meeting, referenc was made to the death of Thomas Green ish. Richard Reynolds and E. C. C. Stan ford, who was specially interested in pro ducts obtainable from seaweeds; h discovered algin and it was his pioneerin work over fifty years ago that has resulte in the present production of alginate

The papers read at the conference were ɔt of great importance. E. H. Farr and . Wright read a paper dealing with their ecial subject on this occasion, "The etermination of Strychnine in Galenical reparations of Nux Vomica," and a paper ı "Ash in Drugs" by C. G. Moor and . Priest gave rise to a good discussion. f interest to the retail pharmacist were pers on Eastons syrup and phenol supsitories.

Public analysts were turning their attenɔn more and more to general articles of ɔd and pharmaceutical products. Earlier lumes of "The Analyst" had contained merous papers on milk analysis, etc.; t generally there was little affecting the armacist. During the year 1900 papers re read before the Society of Public alysts on extract of malt, the estimaɔn of camphor in camphorated oil, the imation of glycerin, treacle, and on certain B.P. tests dealing chiefly with drugs and essential oils. Great interest was aroused by the discovery of arsenic in beer in Manchester; it was found to be due to the use by one firm of sugar refiners of sulphuric acid containing arsenic. The report of the commission to the Manchester Brewers' Central Association states that "All the other brewing sugars on the English market have been analysed and have been found to be quite free from arsenic." The case had several repercussions. It tended to emphasise to the general public the importance of the public analyst, to the manufacturer the necessity of analytical control of both raw material and finished product, and it also produced an arsenic "scare." The records of one firm show that numerous samples of wall paper, particularly those coloured green, were submitted to be tested for the possible presence of arsenic.

OVERSEAS NEWS

State Pharmacy Opposed.—Chemists in eden have opened a fund to fight the edish Government's plans for a State armaceutical service.

French Seek Cortisone in Africa. — ofessor Auguste Chevalier, French Acany of Science, is going to Central rica to examine plants which yield Corɔne.

Japanese-West German Trade.—Japan d Western Germany recently concluded rade pact. Japan is expected to import m Germany potash, chemicals and ıgs.

Bill to Control Antihistamines.—A Bill impose restrictions (including supply on scription only) on the sale of antihistines is to be introduced into the New rk State legislature in February.

Co-operation in Africa. — Representaes of Belgium, France, Portugal, South Rhodesia, the Union of South Africa d the United Kingdom attended a conence in Paris, recently, to discuss means co-ordinating the work of technical exts in Africa south of the Sahara. They eed to pool resources and establish a nber of joint bureaux to deal with blems such as sleeping sickness, rindert, soil erosion and the spread of plant ts and diseases.

Spanish Chemical Industry.—A recent ɔcation by the Spanish Cabinet to a ancial group with powerful backing of Schering and Bayer interests in Spain (expropriated in agreement with the Allied request for the seizure of German firms in Spain) lays the foundation for a strong chemical industry in Spain. The purchasing group is formed of the Hispano-American and Urquijo Banks, Cros Chemicals, Union Española de Explosivos and other important Spanish industrial and financial concerns. The price paid for the two German chemical groups is understood to be 18 million pesetas for the Bayer interests and 7 million for the Schering interests. In the latter transaction it is understood that obligations had to be taken over, involving several times the basic price.

Brazilian Carnauba Wax Industry.—The carnauba wax industry in Brazil is deteriorating owing to primitive methods of collecting and preparing the wax, resulting in a large part of the product being lost, according to the director of the Brazilian Institute of Oils. There is also large-scale adulteration by the addition of earth in order to increase weight. Complaints from foreign buyers are common and there is now a tendency for them to fill their requirements elsewhere. The Bulletin of the Brazilian Government Trade Bureau in New York reported recently the production by the Armour Research Foundation of a new industrial wax with similar properties to carnauba obtained from sisal pulp, a fibre which is being intensively cultivated in Mexico. This new wax is hard, with a melting point of 85° C.

CHEMISTS DEBATE N.H.S.

THE Thames Valley Pharmacists' Association met the Wimbledon Branch of the Pharmaceutical Society at Wimbledon on January 19 to debate the motion "That this house considers the National Health Service is not working out to the advantage of the patient, doctor or pharmacist." The chair was taken by Mr. O. F. C. Bromfield, Editor of THE CHEMIST AND DRUGGIST.

MR. N. DEWEY, Kingston, the opening speaker for the motion, said that, though the idea of a national health service was good, the present Service had been launched without the "mechanics" of it being worked out. A pilot scheme should first have been tried to explore difficulties, after which a bigger and better scheme could have been developed. The patient, who had been under the impression that he could obtain everything he wanted under the scheme, was finding now that his demands were costing too much. Mr. Dewey deplored the "irresponsibility of the patients," which was leading, under the present improperly planned scheme, to too much waste. From the doctors' point of view, an increasing amount of time had to be spent in signing forms for patients' milk, butter, eggs, etc. Competition had not been eliminated from medical practice.

"Fancy" Drugs

MR. R. J. M. COCHRAN, supporting Mr. Dewey, said that the institution of the National Health Service had satisfied officialdom but little else. It was turning the younger members of society into hypochondriacs. Prescribing had deteriorated, and as proof he held up a pile of prescriptions of "fancy" drugs which had been handed to him to dispense during the day. The nation could not afford the cost, and chemist contractors might suffer soon.

MR. F. C. WILSON (a member of the Pharmaceutical Society's Council), who opened for those opposing the motion, pointed out that the motion dealt only with the advantages to the patient, doctor and pharmacist, and not with the general public. Mr. Dewey had, in fact, pointed out that the chemists were doing well financially, and that the doctors had gained additional prestige and extra holidays. As to the demand for prescriptions, he pointed out that, under N.H.I., seventy million prescriptions were dispensed annually by chemists, plus ten million private prescriptions. An equal number were dispensed by doctors, bringing the grand total prescriptions dispensed annually to 1 millions. In the first year of N.H.S., on another 27 million prescriptions had be dispensed, and most of those had gone the mothers of families. He refuted t suggestion that the Service was turni Britain into a nation of hypochondria The House of Commons Select Co mittee on Estimates was of the opini that "on the whole the scheme was settli down with surprisingly little friction."

MR. R. H. HENRIKSEN, supporting M Wilson, dealt particularly with the hospit service. The hospital patient under N.H. was at an enormous advantage, since expenditure was required of him. Pharm cists in the hospital service had received slightly higher salary (though it was n high enough), while hospital doctors h benefited financially and professionally.

Discussion

In the general discussion which followe MR. T. JAMES, Wimbledon, said th N.H.S. was suffering perhaps from teet ing troubles which would soon disappe Patients in general were having a "go deal." MR. K. J. WALKER, Bradfo criticised Mr. Wilson for basing his arg ment chiefly on money, and said that t Service should be judged by advantage the nation's health. MR. V. RIDOUT, M den, criticised the Service for giving t doctors too much paper work and for p viding a hospital service with too few be The chief disadvantage from the chemis point of view was that they were ov loaded with broken bulk. MR. H. G. Mo Feltham, replying to Mr. James, said t the patients had a "good deal" too mu MR. H. L. S. BLACK, Kingston, thoug that both sides had been speaking w their tongues in their cheeks. In opinion, doctors were overworked a underpaid. MR. I. J. CUNNINGHAM, Kin ton, doubted the value of many of t prescriptions written and dispensed in t Service, while MR. A. G. SHAW, Kingst supporting Mr. Wilson, pointed out t only a fraction of N.H.S. contributio went to support the Health Service, t remainder going towards pensions. M H. S. FENTON (chairman, Wimbled Branch) agreed that the N.H.S. was t "baby brother" of N.H.I., and maintain that its present teething troubles would go. The chief drawback to chemists w the pricing difficulty. Counter prescribi in the experience of MR. O. L. CROSS

resident, Thames Valley Pharmacists' sociation), had increased since N.H.S. rted, because patients preferred to go the chemist for mixtures "which are as od as the doctor's," and which they uld get without much waiting and waste time.

Mr. F. C. Wilson, winding up as oppo-, pointed out that the taxpayer did not me into the motion. It had been shown the Whitley Council that migration of armacists from hospitals was sufficiently all to be of slight concern. He suggested at when the scheme for checking abuses, ich had been dropped during the war, was reinstated, as he thought it would be, abuses of the Service would diminish. The proposer had, in his opinion, failed to prove that the scheme was not working out to the advantage of doctor, pharmacist and patient.

Mr. Dewey, concluding in support of the motion, said that troubles of the National Health Service were not teething troubles but "bandy legs which have got to be straightened." On being put to the vote the motion was defeated by thirty-seven votes to twenty-four.

A collection taken for Birdsgrove House realised £3.

NEW BOOKS

Detoxication Mechanisms.—R. Tecwyn lliams, Ph.D., D.Sc. 9 x 5½ in. Pp. 288. . Chapman & Hall, Ltd., 37 Essex eet, London, W.C.2. The question what ppens to a compound in the body arises quently from the widespread current use synthetic drugs in medicine and the urrence of poisoning by organic com-unds in industry. The author gathers ether the available information on the ject, describing the fate in the body such compounds as mandelic acid, sul-namide drugs, morphine, ethyl alcohol d the barbiturates.

The Essential Oils, Volume Two.—nest Guenther, Ph.D. 9 in. x 6 in. Pp. . 55s. D. Van Nostrand Co., Inc., w York, U.S.A. (in the British Empire, cmillan & Co., Ltd., St. Martin's Street, ndon, W.C.2). The first volume of Dr. nther's work on essential oils described ntitative methods of assaying the more portant constituents. The second volume s into greater detail on the constituents he oils, though there also are a few re-nces to synthetic products closely related natural isolates. A section of the book the preparation of derivatives of the stituents is contributed by Dr. Frances Sterrett. Because of the uniform scheme arrangement of individual constituents, volume is most useful for reference poses.

The Clove Tree.—G. E. Tidbury, B.Sc., .C.S. 8½ in. x 5½ in. Pp. 212. Price Crosby, Lockwood & Son, Ltd., 39 rloe Street, London, S.W.7. This book, an agricultural officer in the Zanzibar ectorate, is perhaps the only recent work ing exclusively with cloves. The clove is indigenous to the Moluccas, but has n cultivated in two islands of Zanzibar 1818, where it has been, although in adverse environment compared with its native habitat, for a century and a half the most important industry of the Protectorate. The disease known as "sudden death" ("not as sudden an occurence as the name suggests") is discussed in detail and the close connection between water shortage (Zanzibar has a lighter rainfall that the Moluccas) is emphasised. The history of the clove trade is dealt with, and there is information on cultivation, harvesting and curing, and the testing of samples. A chapter on the uses and products of cloves is also included.

The Petroleum Chemicals Industry.—Richard Frank Goldstein, B.Sc., Ph.D. (Lond.), F.R.I.C., F.Inst.Pet. 9¾ x 6 in. Pp. 449. 63s. E. & F. Spon, Ltd., 57 Haymarket, London, S.W.1. What Sir Robert Robinson refers to in a preface as "the strange reactions of the paraffins" have compelled attention from a growing number of chemists as petroleum increasingly challenges coal tar as a source of industrial and pharmaceutical chemicals. An early and noteworthy contribution has been made by Dr. Goldstein to providing what is likely one day to become a considerable literature on the subject. In this volume, which deals comprehensively with fundamental theory and its practical applications in many technical and commercial developments, Dr. Goldstein's main concern has been to survey the scope of the industry, to describe what it already has done and what it can do. If the book is in some sense a tract to impress the chemical industry that it should devote more attention to petroleum or risk falling behind, the work both presents its case with cogency and provides a compendium of information for the manufacturer, teacher and student.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quan ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, Jan. 25

THE principal feature of the week has been a reduction in the prices of MERCURY SALTS, following weakness in the metal. In other directions, the PHARMACEUTICAL and FINE CHEMICAL market continues steady, with prices little changed on the week. One maker of STREPTOMYCIN has, however, announced lower prices, while, from today, ZINC OXIDE is reduced by 35s. per ton. Supplies, generally, are keeping up with increased demand, but there are notable exceptions, of which SANTONIN and THYMOL are among the more important. Activity in CRUDE DRUGS has been on a low level and price movements have been few. BALSAM TOLU continues in good request and prices are still rising. ERGOT is difficult to procure from Portugal and spot prices are firmly maintained. The volume of inquiry for IPECACUANHA has declined slightly but, prices are unchanged; a further parcel of Johore root is offered on the spot. LOBELIA is offered from source at higher prices than the current level of spot quotations, and importation is unlikely. RHUBARB is attracting little interest; trade circles anticipate that prices in China will be lower shortly. SENEGA is quiet and slightly easier on the spot although the primary market remains firm. In the market for ESSENTIAL OILS, interest is centred in Chinese star ANISE, which has gained strength rapidly, and prices are still rising.

U.S. Drug and Chemical Report

New York, January 21

COMPETITIVE conditions in PENICILLIN have resulted in several of the larger manufacturers reducing prices to wholesalers and hospitals; bulk prices are, as yet, unchanged. Lower prices are also reported for ALOIN. There has been a marked improvement in the demand for CRUDE DRUGS following the arrival of colder weather. Only limited supplies of RHUBARB are available here and prices have been advanced to $1.15 per lb. IPECACUANHA is nominal at $4.75 per lb. Small quantities of BALSAM TOLU are being offered at $2.50 per lb., and BALSAM PERU is 85 cents per lb. SENEGA is a quiet market but any increase in demand would undoubtedly be followed by higher prices. LOBELIA, CASCARA SAGRADA and PODOPHYLLUM are all firm. Consumption of CARNAUBA WAX is being maintained at a high level. ESSENTIAL OILS are meeting with a substantial demand and the market is strong with prices generally moving upwards. PEPPERMINT has advanced in price from $6 to $6.20 during the week. ANISE replacements, at $1.40 per lb., are well above current market prices.

Pharmaceutical Chemicals

ACETONE. — Prices are unchang Makers' contract rates per ton are as f lows:—In 40/50 gall. drums: Less th 1 ton, £70; 1 ton, £69; 10 tons to 50 to £68; 50 tons and over, £67. Smal quantities are quoted at £90 per ton 5-gall. and £85 per ton in 10-gall. drur

ATROPINE.—Steady. Makers' rates p oz. are: ALKALOID, 41s. 3d.; 4 c 40s. 9d.; 25 oz., 40s. 3d. SULPHA 32s. 9d.; 4 oz., 32s. 3d.; 25 oz., 31s. 9d.

CREAM OF TARTAR. — Makers' rates the home trade are: 10 cwt. lots, 14 per cwt.; 5-10 cwt., 149s.; less than 5 c and more than 2 cwt., 150s.; 1-2 cw 152s., delivered.

CREOSOTE.—B.P. quality, ex beechwo is quoted at from 6s. 9d. to 7s. 6d. per

CYCLOBARBITONE. — Makers' prices small quantities are from 79s. 5d. 83s. 11d. per lb. The CALCIUM derivat is available at the same prices as the ba

DEXTROSE.—Basic rates for the ho trade are unchanged. MONOHYDRATE, B. quantities of 1 ton and upwards, 1s. lb.; 10-cwt. to 1-ton, 1s. 0½d.; 5-cwt. 10-cwt., 1s. 1d.; 1-cwt. and less than 5-cw 1s. 1½d.; less than 1-cwt., 1s. 2¾d., livered. ANHYDROUS, B.P., quantities o ton and upwards, 1s. 0¾d. per lb.; 10-c to 1-ton, 1s. 1¼d.; 5-cwt. to 10-cw 1s. 1¾d.; 1-cwt. and less than 5-cw 1s. 2¼d.; less than 1-cwt., 1s. 4d.

IODINE PREPARATIONS. — Home - tr prices are as follows:—RESUBLIMED IODI B.P.—1-cwt. lots, 18s. (28-lb. container 18s. 1d. (14-lb.); 18s. 1½d. (7-lb 18s. 2½d. (4-lb.); 18s. 3d. (2-lb.); 18s. per lb. (1-lb.); smaller quantities scheduled up to 22s. 2½d. per POTASSIUM IODIDE, B.P. — 1-cwt. l 15s. 5d. (28-lb. containers); 15s. 6d. (lb.); 15s. 6½d. (7-lb.); 15s. 7½d. (4-lb 15s. 8d. (2-lb.); 15s. 9d. (1-lb.); sma quantities, up to 18s. 11½d. per SODIUM IODIDE, B.P.—1-cwt. lots, 16s. (28-lb. containers); 16s. 10d. (14-lb 16s. 10½d. (7-lb.); 16s. 11½d. (4-lb 17s. (2-lb.); 17s. 1d. (1-lb.); smaller qu tities, up to 21s. 10½d. per lb. IODOFO POWDER, B.P.—1-cwt. lots 21s. (28-lb. c tainers); 21s. 1d. (14-lb.); 21s. 1 (7-lb.); 21s. 2½d. (4-lb.); 21s. 3d. (2-lb 21s. 4d. (1-lb.); smaller quantities, up 25s. 10½d. per lb. IODOFORM CRYSTAL 2s. per lb. more than powder. Contain charged, excepting 28-lb. tins which free. Special rebate of fourpence per allowed for quantities of 5-cwt., in delivery or on contract (three month Carriage paid in Great Britain, North Ireland and Eire (duty for buyer's count).

HEXYLRESORCINOL. — B.P.C. material is ted at from 175s. to 200s. per lb.

CHTHAMMOL.—In drums, quotations are n 3s. 6d. to 3s. 9d. per lb.; in 7-lb. tins, n 4s. 3d.; and in 1-lb. tins from 4s. 6d. 5s. per lb.

ACTOSE. — Dutch (B.P.) is quoted at 7d. per lb. for 5-ton lots; 3-ton, 7½d.; 1-ton, 1s. 7¾d.; less than one ton, 8d., duty paid, ex wharf London. Eng- is from £130 to £135 per ton in 2-cwt. s (in bags, £5 per ton less).

MERCURY SALTS. — Makers announce er prices with effect from January 23. MONIATED, B.P., powder, is now from 5d. (1-cwt. lots) to 9s. 1d. (7-lb.) per lump is twopence per lb. less. CHLORIDE, B.P., powder, is from 6s. 11d. 7s. 7d.; lump, sixpence per lb. more. LORIDE, B.P. (CALOMEL) is from 8s. 4d. 9s. per lb. OXIDES, B.P.C., levigated, yellow, B.P., are from 8s. 10d. to 6d. per lb. Similar reductions obtain the prices of the minor mercurials.

XALIC ACID.—In 4-ton lots, prices are 0 10s. per ton in casks and £134 10s. kegs; contracts, £128 and £132 per ton, ectively. 2 tons and less than 4 tons, per ton more; 1 ton, £2; 10 cwt., £7; wt. and under, £12 more than the fore- g rates.

ARALDEHYDE.—Rates for B.P. material as follows: 5 carboys, 1s. 6d. per lb.; arboy, 1s. 7d.; in winchesters, from ½d. to 2s. 0½d. per lb.

OTASSIUM ACETATE, B.P.—Fine granu- s 2s. 1½d. per lb. in 1-cwt. lots.

OTASSIUM ANTIMONYLTARTRATE. — Quo- ns are in the region of 7s. 10d. to 8s. lb. The SODIUM salt is available at t 9s. per lb. for small quantities. IMONIOUS OXIDE, B.P.C., is 6s. per lb.

NTONIN.—Current rates per kilo are: lots, £64; 500-gm., £65; 250-gm., 100-gm., £67; smaller quantities, £68. plies continue short.

LVER SALTS. — Steady. NITRATE in -oz. lots is quoted at 3s. 5$\frac{1}{16}$d. per oz. EIN, B.P. (8 per cent.), in 14-lb. tins, s. 3d. per lb. VITELLIN, B.P.C., 20 per is 66s. per lb. (14-lb.); 30 per cent., er lb.

DIUM SALICYLATE. — Unchanged. ers' price for 1 cwt. is 2s. 7d. per lb.; ers' rates per lb. (containers in ets) in the home market as follows: and under 1 cwt., 3s. 4d. (1-lb.); d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net nonth.

NNIC ACID. — Current quotations for levis, are from 8s. 6d. per lb.

YMOL, B.P.—Makers' prices are from 3d. to 20s. 3d. per lb., as to quantity.

C OXIDE.—A decrease of 35s. per ccurred on January 25 making B.P. £93 5s. per ton in 2-ton lots,

Crude Drugs

ACONITE.—An inactive market. Indian remains at 260s. per cwt., spot,; *napellus* is 4s. per lb., spot., duty paid.

AGAR.—Kobé No. 1 strip, on the spot, is quoted at from 14s. 6d. to 15s. 6d. per lb., duty paid; to come forward, from 8s. 6d. to 9s. 3d., landed, duty paid; for shipment, 7s. 7½d., c.i.f.

ALOES.—Cape is offered at from 115s. to 120s. per cwt., spot; Curaçao is from 220s. to 225s. per cwt., on the spot; from origin, 215s. per cwt., c.i.f., quoted.

ARECA NUTS. — Steady. Spot offers are from 47s. 6d. to 60s. per cwt.

BALSAMS.—*Canada* is firmly held on the spot at 18s. per lb. Pará *Copaiba* is 8s. per lb., duty paid; 7s. 6d. in bond. San Salvador *Peru* is at from 6s. 6d. to 7s. per lb., duty paid. *Tolu* is from 19s. 3d. to 19s. 6d. per lb., spot; from origin, 18s. 6d., c.i.f., quoted.

BELLADONNA. — Jugo-Slav root, from 3s. 8d. to 4s. 3d. per lb., duty paid; Italian root, quoted at from 3s. 6d. to 3s. 9d. per lb., duty paid. Jugo-Slav herb is offering at 6s. 6d., duty paid. English leaves are quoted at 4s. 6d. per lb.

BENZOIN.—Sumatra prime block is quoted at about £18 10s. to £19 per cwt., spot.

BUCHU.—Short rounds are from 3s. 3d. to 3s. 4d. per lb., spot; new-crop for shipment, 3s. 1d., c.i.f. Ovals are quoted at 3s. per lb., spot.

CAMPHOR. — Chinese tablets are now quoted at from 5s. 9d. to 6s. per lb. for ½-oz. and from 5s. 3d. for ⅜-oz.: 2½-lb. slabs are from 5s. to 5s. 3d. per lb.: all duty paid, spot London. Refined powder (B.P.) is offered at from 4s. 6d. to 5s., duty paid; and B.B. grade from 4s. per lb., duty paid, spot.

CANTHARIDES. — Quiet. Chinese on spot is quoted at from about 6s. 6d. per lb.

CAPSICUMS. — African on spot is 125s. to 180s. per cwt., as to quality.

CASSIA PODS.—(*C. fistula*).—Indian is quoted at from 62s. 6d. to 65s. per cwt., ex wharf London.

CINCHONA.—A small steady demand in evidence. British East African hybrid chips, on the spot, are offered at prices from 1s. 6d. per lb.: Congo *succirubra* bark is 1s. 10d. per lb.: and *Ledgeriana* (S.O. 6.93 per cent.) is 2s. 4d. per lb., ex wharf London.

CINNAMON.—Ceylon 0000 on the spot, quoted at 2s. 9d. per lb. (2s. 4½d., c.i.f.): quillings at 1s. 1d. (11½d., c.i.f.); and chips at 5d. (3½d., c.i.f.).

CLOVES.—Quiet. Zanzibar on the spot is from 1s. 4½d. per lb.: January-February shipment, 1s. 2¾d., c.i.f. Madagascar in bond is 1s. 5d. per lb.

COD-LIVER OIL.—45-gall. drums of B.P. quality are quoted at £26 5s. (11s. per

gall. plus 30s. for returnable drums) and 25-gall. drums at £14 15s. (11s. plus 20s.); 5-gall. drums are £3 (12s. per gall., drum included and not returnable).

COLCHICUM. — Corms on spot are nominally 3s. 6d. to 6s. per lb., as to test; seeds, 11s. per lb., spot, duty paid.

COLOCYNTH.—White pulp (B.P.) on spot is 2s. per lb.; to arrive, 1s. 9d., landed.

DIGITALIS. — English leaves, from 2s. 3d. per lb.; powder, B.P., 5s. 9d.

DRAGONS BLOOD.—Steady. Singapore reboiled No. 1, £60 per cwt., spot; No. 2, £47 10s. per cwt.

ELEMI. — Manilla No. 1 is offered at 1s. 9d. per lb., on the spot.

ERGOT.—Portuguese is nominal at from 26s. per lb. on the spot; from source, 25s. to 27s. 6d., c.i.f., quoted.

GAMBOGE.—Siam pipe is offered at £40 per cwt., duty paid; powder, 11s. per lb.

GENTIAN.—French natural on the spot is quoted at from 70s. to 72s. 6d.

GINGER.—African on the spot is offered at 345s. per cwt.; new-crop, February-April shipment, 307s. 6d., c.i.f., sellers. Jamaican on the spot is 355s. per cwt.; new-crop, January-March, business reported done at 307s. 6d., c.i.f.

GUAIACUM RESIN.—Steady. A parcel on the spot is offered at 3s. 6d. per lb.

GUM ACACIA. — Kordofan cleaned sorts on the spot, offered at 87s. 6d. per cwt., spot London or Liverpool; January-February shipment, 82s. 6d., c.i.f. Bleached gum, 125s., spot. Talha is 50s. per cwt., on spot; shipment, 48s. 6d., c.i.f.

HENBANE.—B.P. herb (*niger*) on spot, is quoted at 4s. 3d. per lb.

IPECACUANHA.—Prices are unchanged at late rates; inquiry is small. Nicaraguan or Costa Rican on the spot is offered at 42s. to 42s. 6d. per lb.; Colombian, 37s. 6d. to 39s., spot. Forward prices are unchanged. Matto Grosso from origin is offered at 50s. per lb., c.i.f., and Minas at 40s., c.i.f. A parcel of Johore is available on the spot and 37s. 6d. is indicated.

IRISH MOSS.—White carrageen is on offer at 85s. per cwt., spot.

JALAP.—A parcel on the spot testing 9-11 per cent. resin is quoted at 4s. per lb.; 15 per cent. is offered at 4s. 6d., spot. Brazilian (12.7 per cent.), 2s. 9d. per lb., spot.

KAMALA. — Spot quotations are from 2s. 3d. per lb.; dearer to come forward.

KARAYA. — Selected is offered at 290s. per cwt., spot; No. 1, 255s.; No. 2, 215s.; No. 3, 180s.

KOLA NUTS.—Steady. African quarters, 6d. per lb.; halves from 2¾d. to 4½d. Jamaican washed halves, 3½d. per lb.

MYRRH.—Aden sorts, spot, offered at £12 per cwt., siftings are at £6 10s. to £7.

LANOLIN.—Steady. B.P. anhydrous £120 per ton; hydrous, £90. Superfi anhydrous is quoted at £126 per ton.

MACE. — West Indian blade is offer at 6s. per lb. on the spot; pickings a from 2s. to 5s., as to quality.

MASTIC.—Tears (No. 2) are offered 13s. 6d. per lb., ex wharf.

MENTHOL.—Brazil on the spot is offe at from 84s. to 85s. per lb., duty pai in bond, 80s.; March-May shipment, 8 c.i.f., indicated, but there are second-ha sellers at 73s. 6d., c.i.f.

MERCURY. — Spot quotations are fr £18 15s. to £19 per flask; for shipme £18 6s. 6d., c.i.f.

NUTMEGS. — West Indian 80's qu 2s. 9d., on spot; sound assorted, 2s. 1 spot. East Indian 80's offered at 2s. 1 per lb., c.i.f., Continent.

NUX VOMICA. — Cochin is offered fr 36s. to 37s. 6d. per cwt., spot; 32s., c. Madras for shipment, 27s. per cwt., c. Cocanada, 35s per cwt., spot.

OLIBANUM.—Best drop is quoted at fr 220s. to 225s., and medium drop at 190 peas are 200s., fair garblings, 125s.; s ings, 85s. per cwt., spot, buyers.

OPIUM.—Turkish on the spot is quo at 7s. per unit.

ORANGE PEEL.—Thin cut Tripoli is q ted at 1s. per lb., duty paid, spot; bit quarters are 1s. 3d. per lb., duty pa spot, nominal.

ORRIS.—Florentine root on the spot offered at 110s. to 120s. per cwt.; Vero for shipment, 60s., c.i.f.

PAPAIN. — East African white, on spot, is from 15s. per lb.; Ceylon bro from 11s. to 12s. per lb., spot.

PIMENTO.—Quiet. Sellers at 1s. per lb., on the spot; for shipment, 168s. per cwt., c.i.f.

QUASSIA.—Steady. Chips on the spot quoted at from 33s. to 35s. per cwt.

QUINCE SEED. — Cape on the spot steady at 3s. 6d. per lb.

RHATANY. — Quiet. Spot quotations unchanged at 9d. per lb.

RHUBARB. — Nominal on the spot 10s. 6d. per lb., duty paid; for shipm 8s., c.i.f.

SARSAPARILLA.—Jamaican native red, the spot, is offered at 2s. to 2s. 3d. lb.; forward, 1s. 10d., c.i.f. Jamai grey, 3s. 6d., spot.

SEEDS.—Turkish ANISE on the spot unchanged at 155s. per cwt., in bond, 165s. per cwt., duty paid. Egyptian offering at 150s. per cwt., in bond, s London. CARAWAY.—Dutch is unchan at 125s. per cwt., duty paid, spot Lon CELERY.—Indian now quoted at 1s. per lb., spot London; French still a li easier at 2s. 7d. per lb., duty paid, lan London, CORIANDER.—Morocco contin

at 77s. 6d. per cwt., in bond, and per cwt., duty paid, spot London. For ment, sellers are firm at 75s. per cwt., London. Argentine, whole seed, is per cwt., duty paid, spot London. IN.—Market is unchanged on the spot. occo is 157s. 6d. per cwt., in bond, 167s. 6d. per cwt., duty paid, spot don. For shipment, shippers' indica- s are now 155s. per cwt., c.i.f., London. an is 155s. per cwt., spot London or rpool. DILL.—Indian is still offering 2s. 6d. per cwt., spot London. FENNEL. dian is quoted at 75s. per cwt., spot don; and for shipment 67s. 6d. per c.i.f., London. FENUGREEK.—Market ains firm. Morocco, spot London or rpool, is 57s. 6d. per cwt., duty paid; an is 62s. 6d. per cwt., spot London. NEGA. — Quiet. Spot quotations are 11s. 6d. to 11s. 9d. per lb.; from n, 11s. 6d., c.i.f., quoted.

NNA.—Tinnevelly leaves, spot, No. 1, 9½d. to 11d. per lb.; No. 2, 7½d. to No. 3, 6½d. per lb.; Tinnevelly pods, ted, nominal; ordinary hand-picked, to 1s.; manufacturing, 5½d. to 6d. andrian pods, hand-picked, spot, from d. to 5s. 9d. per lb., nominal; medium s are offered at from 2s. 6d. to 3s. b., manufacturing, 8d.

ELLAC.—F.O.T.N., pure, is 330s. per spot; F.O. Standard 1, 345s.; fine e, 360s. to 405s.

UILL.—Italian is quoted at 57s. per spot; for shipment, 45s. to 50s., c.i.f.

ROPHANTHUS.—*Kombé*, 100 per cent., ered at 22s. 6d., spot.

RAX.—Crude is quoted at from 7s. 3d. 6d. per lb., spot, duty paid.

NKA BEANS.—Trinidad, frosted on the quoted at 7s. 6d. per lb. Pará frosted, er lb., spot, shipment, 5s. 6d., c.i.f.

RMERIC.—Madras finger is offered at per cwt., spot; Rajapore finger, 120s., Jamaican, 65s., ex wharf.

LERIAN.—Belgian natural on spot is d at about 180s. per cwt.

XES.—Steady. Dar-es-Salaam BEES' oted on the spot at 375s. per cwt.; ent, January-February, 372s. 6d., c.i.f. ela on spot is 365s., duty paid; ship- 335s. per cwt., c.i.f. CANDELILLA.— e spot, 435s. per cwt., quoted; Janu- ebruary delivery, 430s., ex warehouse. UBA.—Prime yellow is 900s. per cwt., shipment, 890s., c.i.f. Fatty grey is g at 665s. per cwt., spot; January- ary shipment, 660s., c.i.f. MONTAN.— k is quoted at 180s. per cwt., spot; d, 155s., c.i.f. OURICURI.—3.6 per mpurities on the spot is 650s. per 99.5 per cent. pure, for shipment, ted at 660s. per cwt., c.i.f. SPERM- —Spot quotations are at 2s. 3d.

CH-HAZEL LEAVES. — Spot supplies ered at 3s. 9d. per lb., duty paid.

Essential and Expressed Oils

ALMOND. — English-expressed sweet oil (B.P.) is from 4s. 6d. to 5s. 3d. per lb.; Spanish is quoted at from 3s. 3d. to 4s. 6d., as to grade. Bitter, on the spot, is from 30s. to 60s. per lb., as to grade.

ANISE.—Prices continue to rise; 13s. per lb., spot, paid for original drums.

BOIS DE ROSE.—Quotations are from 24s. to 27s. 6d. per lb.; forward, 22s. 6d., c.i.f.

CADE.—Spanish oil, B.P., on the spot, is offered at from 3s. to 4s. per lb.

CAJUPUT.—Steady. B.P. is quoted at from 16s. to 18s. per lb., spot.

CALAMUS.—English-distilled is from 100s. to 150s. per lb. Dutch is quoted at from 65s. to 69s. per lb., duty paid.

CAMPHOR.—Quiet. White oil on spot is quoted at from 2s. 3d. to 2s. 5d. per lb., duty paid; brown oil, from 1s. 7d. per lb., spot, duty paid.

CANANGA. — Spot quotations are from 27s. to 30s. per lb.

CARAWAY.—English-distilled is offered at from 36s. to 40s.; Dutch, 22s. to 25s. per lb., as to quantity; forward, 20s., c.i.f.

CARDAMOMS.—English-distilled is offered at from 400s. to 450s. per lb.; imported, from 255s. to 260s., duty paid.

CASSIA.—Firm. Nominal on the spot at from 18s. 3d. to 20s. per lb.; shipment, 17s., c.i.f., nominal.

CINNAMON.—Steady. B.P. oil, 50s. to 75s. per lb. Bark oil is offered at 12s. per oz. Leaf oil, on spot, from 9s. per lb.

CITRONELLA.—Ceylon, afloat, is quoted at about 7s. 8d. to 8s. per lb.; for shipment, 7s. 2d. to 7s. 3d., c.i.f.

DILL.—English-distilled oil is quoted at from 65s. per lb. for B.P. quality. Indian is offered at 18s. 6d. per lb., spot. Dutch is from 54s. 6d. to 57s. 6d., landed, duty paid; 49s. per lb., c.i.f.

FENNEL.—Dutch sweet is quoted at from 17s. to 17s. 6d. per lb., duty paid; for shipment, 15s. 4d., c.i.f. Spanish is offered at from 19s. to 20s. per lb., spot, duty paid.

GERANIUM.—Bourbon on the spot is at about 95s. per lb.; shipment, from 90s. to 95s., c.i.f., quoted.

NUTMEG.—Prices of English-distilled oil are at 35s. to 37s. 6d. per lb.; second-grade, 25s. per lb. Imported oil is offered at from 28s. 6d. to 30s., duty paid; forward, 25s. 6d., c.i.f.

OLIVE.—Importers' Association's rate is 26s. 2d. per gall. of 9 lb., ex store, drums included. Additional charges are added for small quantities, according to costs of breaking bulk, containers, delivery, etc.

PATCHOULI.—Singapore on the spot is quoted at from 120s. to 150s. per lb.

TEASEED.—Refined on the spot is slightly easier at 22s. per gall.; February-March deliveries, 21s. 9d., ex refinery.

TRADE MARKS

(*From the "Trade Marks Journal," January* 11)

For industrial chemicals (1).—"LOTEMCOL" and "LOTEMEX"; by Coalite & Chemical Products, Ltd., London, S.W.1; 681,806 and 681,808.

For fertilisers (1).—"ALLOTMUS"; by Seamus, Ltd., Bristol; 683,478.

For dentifrices (3).—"GORDON MOORE"; by Gordon-Moore, London, W.14; 667,828.

For all goods, excluding essential oils (3).—"KERAGEN"; by Superma, Ltd., London, W.1; 678,326.

For perfumes (3).—"ORLYS"; by Orlys, Ltd., London, W.1; 679,120.

For non-medicated toilet preparations (3).—"SHAMPENE"; by Ashe Laboratories, Ltd., London, S.W.1; 680,707.

For liquid toilet shampoos and perfumed soap (3).—"DRENE ALL-STAR SHAMPOO" on label device; by Thomas Hedley & Co., Ltd., Newcastle; 681,241.

For all goods (3).—"AROXATE"; by May & Baker, Ltd., Dagenham; 683,198.

For pharmaceutical preparations (5).—"STANWOOD"; by Stanley Haywood, Bolton; B673,352. "HISTOSTAB"; by Boots Pure Drug Co., Ltd., Nottingham; B678,024. "MOORGIL"; by J. P. Gilmour, Ltd., Glasgow; B678,950.

For weed- and vermin-destroying preparations (5).—"GRICO"; by Reginald Harry Sigrist, Clapton-in-Gordano; 677,518.

For pharmaceutical preparations, disinfectants and weed- and vermin-destroying preparations (5).—"ODORSTROYD"; by Germstroyd Products, Ltd., Leicester; 679,567.

For disinfectants (5).—"LOTEMCOL," "LOTEMEX" and "LOTEMEXEL"; by Coalite & Chemical Products, Ltd., London, S.W.1; 681,807, 681,809 and 681,811.

For analgesic preparations (5).—"SOLPRIN"; by Reckitt & Colman, Ltd., Hull; 682,985.

For component parts of scientific apparatus (9).—"DURAL"; by James Booth & Co., Ltd., Birmingham; 679,365.

For non-medicated crêpe toilet paper (16).—"SANICREPE"; by Isaac Mark Richardson, Birmingham; 682,867.

For combs, sponges and brushes (21).—"MINERVA"; by Copestake, Crampton & Co., Ltd., London, W.1; 683,164.

(*From the "Trade Marks Journal," January* 18)

For industrial chemicals (1).—"A.C.Co." and device of anchor; by the Anchor Chemical Co., Ltd., Manchester; B675,081.

For industrial, scientific and agricultural chemicals (1).—"EMPHOR"; by Evans Chemicals, Ltd., Boreham Wood; 677,814.

For sensitised photographic films (1).—"VERNINE"; by the Vernak Film Co., Taunton; 683,754.

For all goods, excluding vermin-destroying preparations (5).—"DICESTAL"; by May & Baker, Ltd., Dagenham; 680,463.

For all goods (3).—"DWARF HAPPY"; Thames Industries, Ltd., London, E.C.4; 668 6 "PEO" in distinctive lettering; by Colgate-Pal olive-Peet, Ltd., London, W.C.2; 678,897.

For toilet soap containing lemon oil (3). "LEMONORA"; by Brentford Soap Co., Lt Brentford; 682,971.

For smelling salts (5).—"PRESTOCAP"; by De velle (G.B.), Ltd., London, N.W.1; 676,700.

For medicines, medicated wines and spirits (5). Device of leaves and zig-zag lightning; by Labo tories for Applied Biology, Ltd., Aylesbu 669,217.

COMING EVENTS

Saturday, January 28

SOUTH-WEST METROPOLITAN HOSPITAL PHARMACIS COMMITTEE, 17 Bloomsbury Square, Lond W.C.1, at 3 p.m. Meeting and conference

Tuesday, January 31

MANCHESTER PHARMACEUTICAL ASSOCIATION a BRANCH, Council Chamber, Houldsworth H Manchester, at 7.45 p.m. Mr. B. J. Thom M.P.S., on "Modern Developments in Ph maceutics."

Wednesday, February 1

LIVERPOOL CHEMISTS' ASSOCIATION and BRAN Exchange Hotel, Tithebarn Street, at 7.45 p Dinner and dance in aid of the Pharmaceuti Society's Benevolent Fund.

SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALY CAL CHEMISTS, Chemical Society, Burling House, Piccadilly, London, W.1, at 7 p.m. Re ing of papers on "Modern Methods of Moist Determination."

Thursday, February 2

BURNLEY BRANCH, PHARMACEUTICAL SOCIETY, C Keys Hotel, St. James's Street, Burnley, at 7 p.m. Mr. E. Pedley, M.Sc., Ph.C., on "For sic Science in Crime Detection."

GLASGOW PHARMACISTS' ASSOCIATION, St. Andre Halls (door F, Kent Road), at 7.30 p.m. B ness meeting.

WEST KENT BRANCH, PHARMACEUTICAL SOCIE Green Man Hotel, Bromley Road, Lond S.E.6. 7.30 p.m. to midnight. Dance in of the Society's Benevolent Fund.

Friday, February 3

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRAN PHARMACEUTICAL SOCIETY, 36 York Place, E burgh, at 7.30 p.m. Mr. W. A. Beattie, M.P F.C.S., on "Some Aspects of the Pharmaceut Services."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION. C penter's Restaurant, 3 The Pavement, Lon S.W.4, at 7.45 p.m. Mr. J. Wright, Ph (assistant secretary, National Pharmaceut Union) on "Current Problems: Forensic N.H.S."

THE second NATIONAL PACKAGING EXHIBITION be held at Olympia (National Hall), London, f January 30 to February 9, 1951, and not as viously announced. Plans will be available sho for intending exhibitors.

WEST HAM ASSOCIATION OF PHARMACISTS is h ing its annual dinner and dance at Bush H Restaurant, London, W.C.2, on Thursday, Febr 23. Ticket 25s. from Mr. W. H. Cloud, 45 L bridge Road, Barking.

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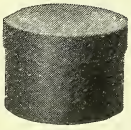

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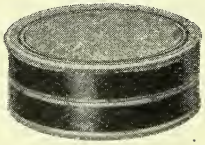

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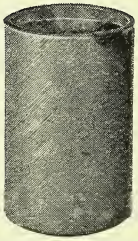

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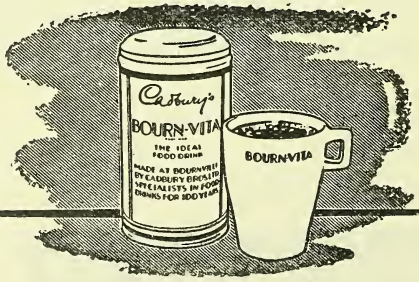

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Waide, Thos., & Sons, Ltd. ...

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Warner, W. R. & Co., Ltd.
Watford Chemical Co., Ltd.
White, J. F., & Co., Ltd. ...
Whitecroft Pin Mfg. Co., Ltd.
Windschuegl, Chas. H., Ltd.
Wiseman, J. H., & Co., Ltd.
Woolley, J., Sons & Co., Ltd.
Wright, Layman & Umney, Ltd. ..... Cove

Zeal G. H., Ltd. .....
Zems, Ltd. .....

Now is the time . . .

Pharmacists should take advantage NOW of the Special ESOBACTULIN Bonus Offer of 13 to the dozen. This is the time when customers come in for their second course of ESOBACTULIN — the complete course of 6 capsules over 5 days is designed to give most people three months' immunity from colds.

Retail 8/3 inc. P.Tax

Supplied through your Wholesaler

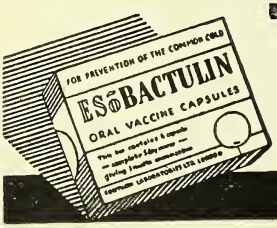
33⅓% DISCOUNT

COUNTER AND WINDOW DISPLAYS NOW WILL BRING RESULTS

Display stand and pocket calendars fo counter distribution on request.

Literature on request

SOUTHON LABORATORIES LIMIT
UPPER RICHMOND ROAD, LONDON, S.W



ESOBACTULIN

protection against colds

HARLENE LAUNCH NATION WIDE SALES BOOSTER!

ver 120 MILLION ew Sales - Compelling dvertisements for ARLENE' This Year!

And this is only the beginning! larlene' are determined to smash all previous les records . . . to capture the 'lion's share' of e hair-toilet market. The terrific force of this ggest-ever sales drive is unrestricted by any of ose sales-retarding problems which affect the unching of untried products. Every 'Harlene' eparation is backed by more than 70 years orld-wide reputation for promoting and aintaining hair-health.

'Harlene' Stockists in most areas, are eady reporting big increases in the demand r 'Harlene' products. More and more of your stomers will be asking regularly for the mous 'Harlene' lines. Prepare now to meet s big demand.

DWARDS HARLENE
LIMITED
, GOUGH STREET, LONDON, W.C.1

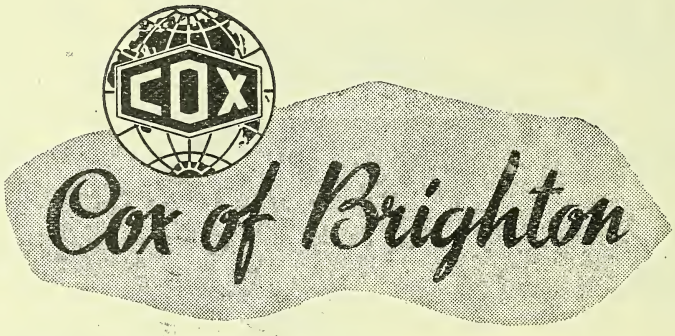
SPECIAL BONUS TERMS FOR DISPLAYING 'Harlene' PRODUCTS

Displaying 'Harlene' products will not only increase your sales, but will entitle you to discounts up to as much as 10% when ordering new stocks.

Write for full details and special order form today.

P.A.T.A.

If it's PILLS or TABLETS consult —



An organisation of Specialists of long experience

ARTHUR H. COX & CO. LTD. BRIGHTON, 7, SX.

BEAR BRAND HONEY

For Purity and Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

Supplied in 7-lb. and 56-lb. tins and in barrels

L. GARVIN & CO. LTD.
ISLEWORTH . MIDDLESEX
Telephone: HOUnslow 3483 (3 lines)

"OATREX"

Prepared from the finest Scottish Oats

FINE GROUND. For weaned infants, nursing mothers and invalids.

MEDIUM GROUND. Makes a grand breakfast food for young and old alike.

Enquiries to Kings of Kingsbury (Sales), Ltd. London Bridge, S.E. 1. Telephone: HOP 2004

KINGS PATENT PRE-COOKED OATM

Vitamins for all age groups

RADIOMULSIN
Trade Mark

A free flowing preparation miscible with any type of infant feed. Pleasantly flavoured to appeal also to older children and adults.
Contains vitamins A B_1 B_2 C and D_2 and nicotinamide.

RADIO-MALT
Trade Mark

A favourite extra-dietary supplement for children and adults. They like its delicious toffee flavour.
Contains vitamins A B_1 B_2 and D_2.

MULTIVITE
Trade Mark

A convenient and widely popular preparation of vitamins essential to health and protection against colds and influenza. Two pellets provide the normal daily adult requirements of these vitamins.
Contains vitamins A B_1 C and D_2.

		Trade	Retail
'RADIOMULSIN'	4 fl. oz.	2/6	3/9
	16 fl. oz.	8/8	13/-
	80 fl. oz.	39/-	58/6
'RADIO-MALT'	Small jars	2/1½	3/-
	Large jars	3/10	5/6
'MULTIVITE'	Container of 75 pellets	3/7½	5/3
	Bottle of 500 pellets	18/-	27/-

Bonus Terms available on application

THE BRITISH DRUG HOUSES LTD. LONDON N.1

VP/T/2

There's a Growing Demand for

NERVONE

REGD

Are YOU Supplying It?

'NERVONE' is the natural corrective for disorders of the nervous system; it restores lost vitality, strengthens the digestive organs and furnishes to the system those precious elements without which the nerves cannot function effectively and life itself become a "Nightmare" of worries and fears.

You should make sure of your share of 'Nervone' sales by stocking and displaying. Show material gladly sent free on request.

P.A.T.A.

Retail	(including Tax)	Wholesale
5/6, 22/- per packet		48/-, 192/- per doz.

"NERVONE"

Cecil House, Holborn Viaduct, London

Velouty de DIXOR

RETAIL PRICES
11½d & 1/9½d
(inc. tax)

The ORIGINAL combined POWDER CREAM

From your usual wholesaler or direct

DIXOR LTD. St. Leonards Works Mortlake, S.W.1

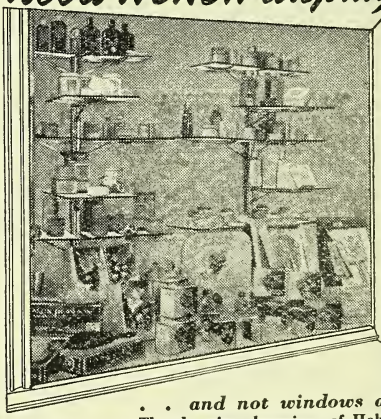
National Association of Opticians

An Examination for the Fellowship Diploma of the National Association of Opticians will be held in Belfast on March 6th, and 7th. Applications by candidates to attend this Examination must reach the Secretary not later than February 11th, 1950.

An Examination will also be held at Edinburgh during the week commencing May 8th, the last date of entry being April 6th, 1950.

Application forms, Syllabus etc., may be obtained from the Director of Examinations, 8 Victoria Street, Liverpool, 2. Telephone: Central 5331-2

Windows To-day need HOKON display



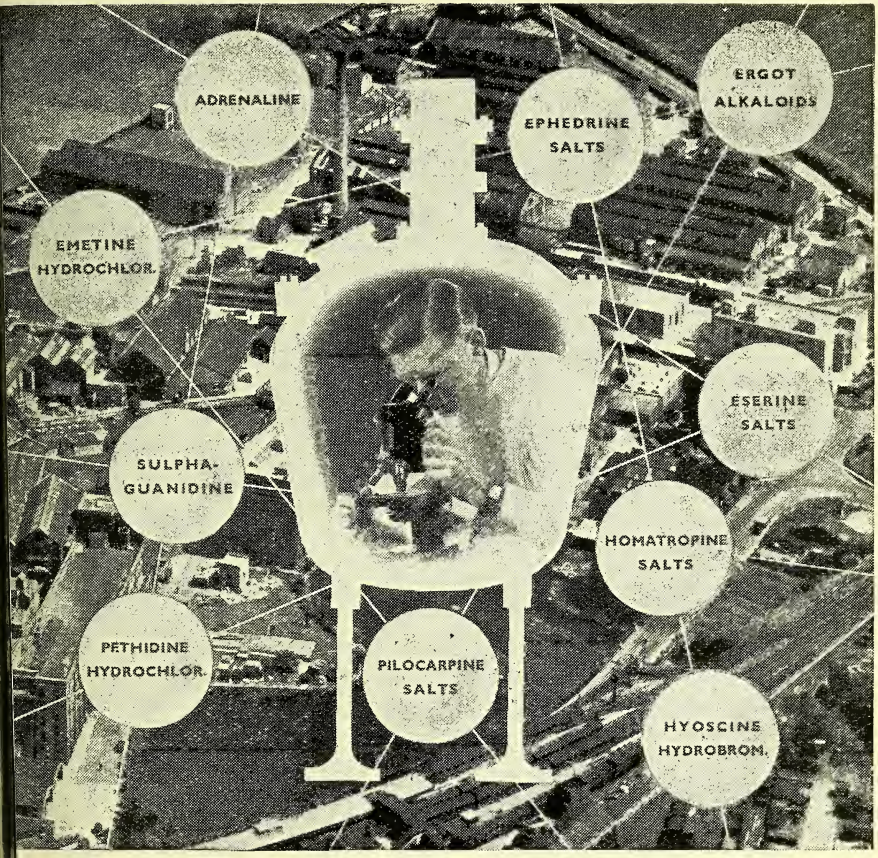
. . and not windows alone

The gleaming chromium of Hokon Di play Fittings, with their glistening hygien glass shelves, instantly adaptab to varying heights and re-arrangemen are an investment which will yield yo big dividends in goodwill and increase service.

Let us send you fullest particulars these, the latest development in Displ Fittings.

HOKON

CHURCH & CO (Fittings) LT
16 The Oracle • Minster St. • Readi



For over **FIFTY** *years*

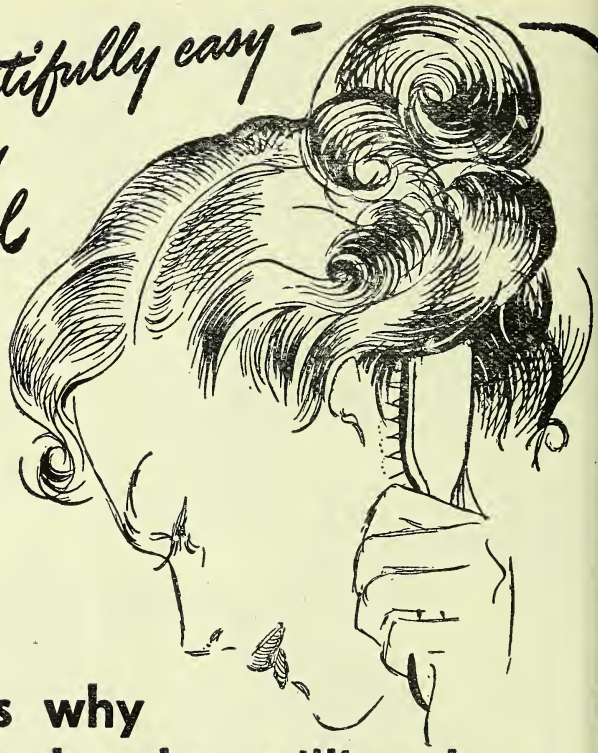
he Wellcome Chemical Works have been producing chemicals of superlative quality. any of these can now be supplied to other manufacturers on particularly advantageous rms. In addition, we invite inquiries regarding the preparation of fine chemicals which e not already on our list. Long and extensive experience in the field of chemical anufacture places us in an exceptional position to meet the special needs of individual stomers.

'B.W. & CO.' *Fine Chemicals*

roughs Wellcome & Co. (The Wellcome Foundation Ltd.), Bulk Chemical Department, 183-193, Euston Road, London, N.W.1

☆

So beautifully easy — so easily beautiful

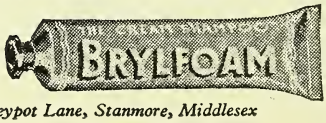


..that's why women by the million buy

BRYLFOAM

Yes, millions of women have proved for themselves the brilliant results they get with Brylfoam, the original cream shampoo. They know that Brylfoam reveals the true beauty of their hair and makes it radiantly clean; they know, too, that Brylfoam is so beautifully easy to use. That's why Brylfoam means ready sales and quick profits for *you*. Get your share of the brisk business Brylfoam brings. Help our bigger-than-ever advertising to do an even bigger job by linking up with window and counter displays. Keep up your stocks of Brylfoam—and keep up your profits!

THE ORIGINAL CREAM SHAMPOO



County Perfumery Co. Ltd., Honeypot Lane, Stanmore, Middlesex

royds T.

Richard Daniel & Son LTD

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

ad Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

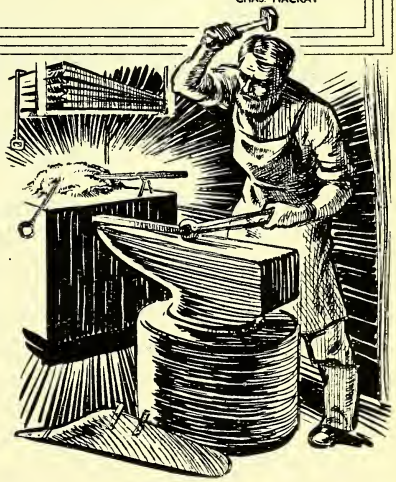
And he fashioned the first ploughshare

CHAS. MACKAY

he power of the forge was as vital to the craftsman
yesterday as the power of good printing is to
odern business today. Furthermore, sound design, be
in ploughshares or printing, reflects the skill and
aracter of the man or organisation behind it.

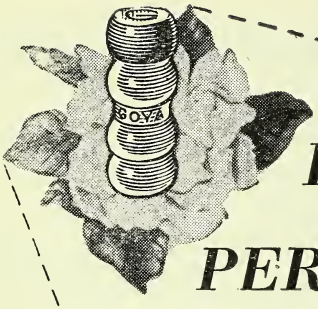
rint is your ambassador-at-large and to achieve
aximum effect it must be of the highest standard.

onsult us when next you are planning brochures,
owcards, cartons, labels, etc. We shall be pleased
place our 70 years' experience at your service.



THOMAS WAIDE & SONS LTD.
KIRKSTALL HILL, LEEDS, 5

rint Specialists for over 70 years



Introducing

PERFUME PLUS!

To help you increase your GOYA turnover, Goya now introduces PERFUMED COLOGNES—to match all the Goya Perfumes.

Goya's Perfumed Colognes are not a substitute for perfume—they are to use as well as perfume, with perfume—in the bath and afterwards, as a refreshing body rub or friction.

Goya's newest perfume idea will be widely advertised and all the advertisements will stress the importance of using PERFUMED COLOGNE *and* PERFUME—the rest is up to you!

When you sell a 2/6d. Goya handbag phial, make it a 5/- sale by selling your customer a matching Perfumed Cologne!

When you sell a 2/6d. Goya Perfume Cologne make a 5/- sale by selling her a handbag phial of matching perfume!

Tell your lady assistant about this newest perfume idea—let her help to increase your Goya turnover.

Goya

GOYA PERFUMED COLOGNES
(one ounce) 2/6d. Trade price 12/- a dozen.

IN SIX FRAGRANCES: Gardenia, Decision, Vibration, "No. 5," Great Expectations, Goya Heather.

GOYA · 161 NEW BOND STREET · LONDON · W.1

CRYSTALLINE PENICILLIN G

Sodium, Potassium and Procaine Salts

AMORPHOUS PENICILLIN

Sodium and Calcium Salts

manufactured by

THE DISTILLERS COMPANY

(BIOCHEMICALS) LTD.

above products and pharmaceutical preparations thereof are distributed throughout the world by

ALLEN & HANBURYS LTD.
BOOTS PURE DRUG CO. LTD.
BRITISH DRUG HOUSES LTD.
BURROUGHS WELLCOME & CO.
EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

their associated houses, agents, and representatives, to whom you are invited to address your enquiries for supplies and information.

THIS IS WHAT THEY SAY ABOUT

SILCOT

They sometimes say this—

My customers like yours best, and many will not have any others.
(Nov. 18, 1949)

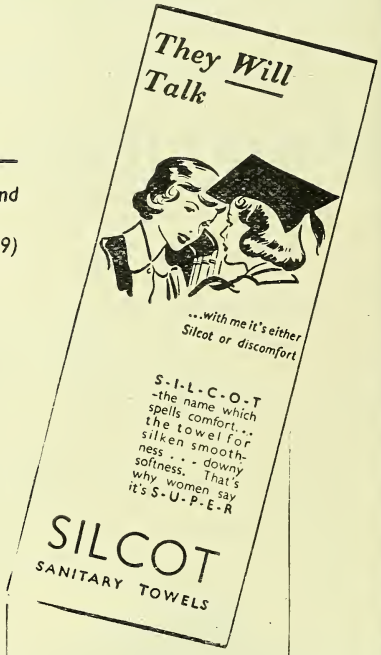
—Sometimes this—

We have been repeatedly asked for your sanitary towels.
(Oct. 2, 1949)

—And at other times this—

If you would please send me a selection, I could then supply the demands. They must be a good towel to be asked for so often.
(Nov. 11, 1949)

These extracts from recent letters show what retailers are saying about SILCOT. The reason why women are asking for Silcot is that it is a quality towel at a competitive price.



Silcot towels are regularly advertised in the women's magazines. These have a combined circulation of some 9,000,000 copies. Above is a reproduction of the February advertisement.

SILCOT *Sanitary Towels*

MACDONALD & SON LTD.

HOPE MILLS, POLLARD STREET, MANCHESTER, 4 Ardwick 1561-2

for FIRST AID in the HOME—

recommend **PROPAMIDINE CREAM-M&B**

a safe and highly effective local antiseptic for **cuts, abrasions, burns, insect bites, stings,** *etc.*

Retail Price: 1s. 9d.

Tube of 1 oz.

★ ATTRACTIVE SHOWCARDS SUPPLIED ON REQUEST

★ BONUS TERMS OF 13 TO THE DOZEN AVAILABLE IN RETURN FOR DISPLAY SERVICES

manufactured by

MAY & BAKER LTD

distributors

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

This is what an ICC £10 parcel means to you

Outlay £8·15·0

ANY I.C.C. PRODUCT can be included in I.C.C. mixed parcels to qualify for extra Co-operation Discount of 12½% on parcels to the value of £10 and over, 10% on parcels to the value of £5 and over. **These discounts are additional to the basic trade discount.**

LOOK at the list of I.C.C. produc on the opposite page—nearly all them are household words.

BECAUSE of the wide range I.C.C. lines, every pharmacist can gi an I.C.C. mixed order large enough qualify for Co-operation Discour without risk of overstocking on a one line.

STUDY the abridged list on th opposite page carefully; make up you £10 parcel—it actually costs you onl £8.15.0—and send your order NOW

INTERNATIONAL CHEMICAL COMPAN

Profit £4·11·8*

Choose any of these ICC products to qualify for the EXTRA CO-OPERATION DISCOUNT

SELLING PRICE INC. P.T.	PRODUCT	TRADE PRICE EX. TAX	TAX PER DOZ.
3/-	'Anne French' Cleansing Milk	14/4	14/4
1/8	'Anadin' Tablets 20s	12/–	4/–
3/4	'Anadin' Tablets 50s	24/–	8/–
1/9	'BiSoDoL' Powder	12/9	4/3
4/1	'BiSoDoL' Powder	29/3	9/9
1/4	'BiSoDoL' Tablets 30s	9/9	3/3
3/7	'BiSoDoL' Tablets 100s	26/–	8/8
1/9	'Bisurated' Magnesia Powder (*Plain & Mint*)	12/9	4/3
3/7	'Bisurated' Magnesia Powder (*Plain & Mint*)	26/–	8/8
1/9	'Bisurated' Magnesia Tablets 75s	12/9	4/3
3/7	'Bisurated' Magnesia Tablets 165s	26/–	8/8
1/10½	'Freezone' Corn Remover	13/6	4/6
1/3	'Kolynos' Dental Cream	9/–	3/–
2/2	'Kolynos' Dental Cream	15/9	5/3
1/3	'Kolynos' Denture Powder	9/–	3/–
2/2	'Kolynos' Denture Powder	15/9	5/3
1/6	'Kolynos' Denture Fixative	13/6	*
3/9	'Kolynos' Denture Fixative	33/9	*
2/6	'Kolynos' Shaving Cream	18/–	6/-
2/9½	'Lystone' Salts	19/9	6/7
1/11	'Pineate' Honey Cough-Syrup	13/9	4/7
1/10½	'Reudel' Bath Salts	13/6	4/6

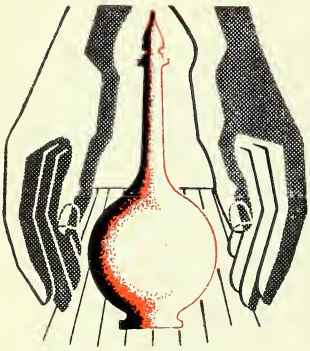
* *Exempt from P.T.*

Your Return.....£13.6.8
Your Outlay
(£10 less 12½%)...£8.15.0
Your Profit £4.11.8

LIMITED · CHENIES STREET · LONDON · W.C.1

TO MANUFACTURERS OF ETHICAL PRODUCTS

Monsanto PHARMACEUTICALS



The three essentials of dependable pharmaceuticals — quality, uniformity and purity — are guaranteed by the rigid control undertaken at our Plants. Monsanto pharmaceuticals not only conform to B.P. standards but frequently surpass those standards by a considerable margin.

MONSANTO PHARMACEUTICALS INCLUDE:

ASPIRIN : ASPIRGRAN
ACETYL SALICYLIC ACID B.P
SODIUM SALICYLATE B.P.
SALICYLIC ACID B.P.
METHYL SALICYLATE B.P.
PHENACETIN B.P.
SODIUM BENZOATE B.P.
BENZOIC ACID B.P.
SALICYLIC ACID (Technical)
PHENOL B.P.
CRESOL B.P.
CRESANTOL 3
CRESANTOL 15
CRESANTOL 15R
P.C.M.C. : P.C.M.X
PHENOLPHTHALEIN B.P.
LYSOL B.P.
VANILLIN B.P.

ASPIRGRAN
Physical Form : Granular

ACETYL SALICYLIC ACID B.P.
Physical Form : Crystals ; Powder

SALICYLIC ACID B.P.
Physical Form : Crystals ; Powder

SODIUM SALICYLATE B.P.
Physical Form: White Flakes; White Powder

METHYL SALICYLATE B.P.
Physical Form : Clear Colourless Liquid

Write to Sales Department for Bulletin "Chemicals for the Pharmaceutical Industry".

MONSANTO CHEMICALS LIMITED
VICTORIA STATION HOUSE, LONDON, S.W.1

Have this bumper bonus on US!

FLIT pays you to make up your mind early.
TAKE ADVANTAGE OF THIS BONUS BEFORE APRIL 29
On all orders for delivery not later than 29th April, 1950,
FLIT gives
10% bonus on all orders of over £10 at list prices.
7½% " " " " " " £8 " " "
5% " " " " " " £5 " " "

Bonus parcels may be ordered direct or through your wholesaler. Orders may include all sizes of FLIT products and FLIT hand sprayers.
For 1950, there's the biggest ever advertising campaign behind FLIT.

And that's not all! There's a bright new tin for the world-famed FLIT.

Nothing has been changed but the tin.

SAME POST-WAR POWER—
SAME PRE-WAR PRICE

STOCK FLIT-WORLD'S NO.1 INSECTICIDE
for quick turnover and big profits

STEMCO LIMITED, 128/132, ALBERT STREET, CAMDEN TOWN, N.W 1

An apology and an assurance . . .

Many chemists have suffered inconvenience through the recent shortage of 'Dexedrine' Tablets, and to them we tender our apologies.

The rapid increase in the demand for this drug since it was first manufactured in this country in 1947 has been a tribute to its value in medicine, and we regret that we have been unable to achieve an equally rapid increase in our manufacturing capacity.

We are now happy to tell you that the problem of raising production to meet the overwhelming demand has been overcome and ample supplies are once more available.

Each 'Dexedrine' Tablet bears the monogram SKF and contains 5 mg. dextro-amphetamine sulphate.

'Dexedrine' tablets

The central nervous stimulant of choice

From 9th January, 1950, again exempt from Purchase Tax in all packs

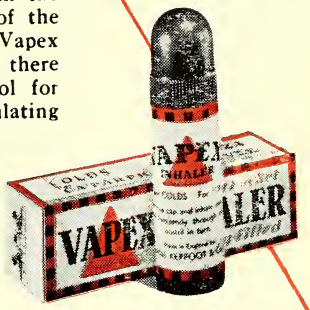
MENLEY & JAMES, LTD., 123 COLDHARBOUR LANE, LONDON, S.E.5

for Smith Kline & French International Co., owner of the trade mark 'Dexedrin

The VAPEX trio —

for "COMBINED OPERATIONS" against the Common Cold

There are now three ways of using Vapex. For Head Colds the vapour is inhaled from the handkerchief or the end of the pillow, or from the *NEW* Vapex Inhaler. For Chest Colds there is the *NEW* Vapex-Volatol for local application as a stimulating ointment-liniment.



VAPEX

INHALANT

Known and appreciated all over the world for more than 30 years. Special packs in many languages. Good show matter can always be supplied. Issued in display outers of 1 dozen.

INHALER

Ideal for use during the day. Unobtrusive, convenient — simply pull off the cap. Supplied ready for use. Easily recharged from standard bottle. In display outers of 3 dozen.

VOLATOL

Vapex in ointment form for rubbing on the chest. Handy tube pack. Non-greasy, does not stain the skin or clothing. Warms, soothes, penetrates. In display outers of 1 dozen.

Export Agents :
WM. ALFRED JONES LTD., West India House, Maryland Street, Liverpool 1, England

V242

THOMAS KERFOOT & CO. LTD., VALE OF BARDSLEY, LANCASHIRE, ENGLAND

StaffAllenS

Founded 1833

are specialists in

MEDICINAL RESINS

SCAMMONY RESIN

JALAP RESIN

PODOPHYLLUM RESIN

(Peltatum & Emodi)

LEPTANDRIN

Let us send you our Price List (wholesale only), or quote you for your specific requirements.

STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.I. CLErkenwell 1000

TAS/AL343

Big Bonus offer!

ON HALEX COMBS

Are you getting your share of the expanding trade the Halex hand-finished combs are building up? Here's a chance to stock up now and enjoy the added benefits of a bonus display parcel.

YOUR STANDARD PARCEL WILL CONTAIN:

1 doz. Pocket Combs retailing at	1/6d.	(Inc. Tax)	
1 doz. Bag Combs retailing at	2/-	,,	,,
2 doz. Gent's Combs retailing at	2/3d.	,,	,,
2 doz. Dressing Combs retailing at	2/9d.	,,	,,

With every Standard Parcel you order we send you FREE OF ALL CHARGE AND TAX, SIX COMBS—one extra in each dozen! *This equals a reduction of nearly* 10% *in the cost of each parcel!* In addition, we send you, on request, a colourful window display card and an attractive counter display stand. Send off your Order AT ONCE—to your usual wholesaler, or direct to Halex Ltd.

THIS BONUS OFFER CLOSES ON 31st MARCH, 1950.

Halex LTD., HALE END, LONDON, E.4.

C

Polyestol Progress

In a widespread advertising campaign in the public press, we state that this new British discovery, the POLYESTOL BANDAGE, provides an effective weapon against Rheumatism, Sciatica, Lumbago, etc.

In the medical press, we offer a free Polyestol Bandage to all doctors on application, in order that they may make their own independent tests.

This policy is pulling results. There have now been over 1,000,000 applications of Polyestol since Spring, 1949, and the demand grows daily.

DON'T FAIL TO STOCK POLYESTOL—it sells quickly.

We are making bold point-of-sale displays to assist the sales drive, and invite you to participate in this and other publicity schemes.

POLYESTOL

Pain-Relieving BANDAGE

POLYESTOL LTD · 4/5 WARWICK COURT · LONDON, W.C.1

C. F. Manufacturers

Keen buyers buy

KAY'S BRAND LINSEED COMPOUND

and Kay's Compound Pastilles in 50/- lots. Mixed parcels are very profitable

3 doz. 1/7 Kay's Linseed Compound @ 10/3 doz. - - - -	£1 10 9
3 doz. 1/11 Kay's Compound Pastilles @ 12/- doz. - - - -	1 16 0
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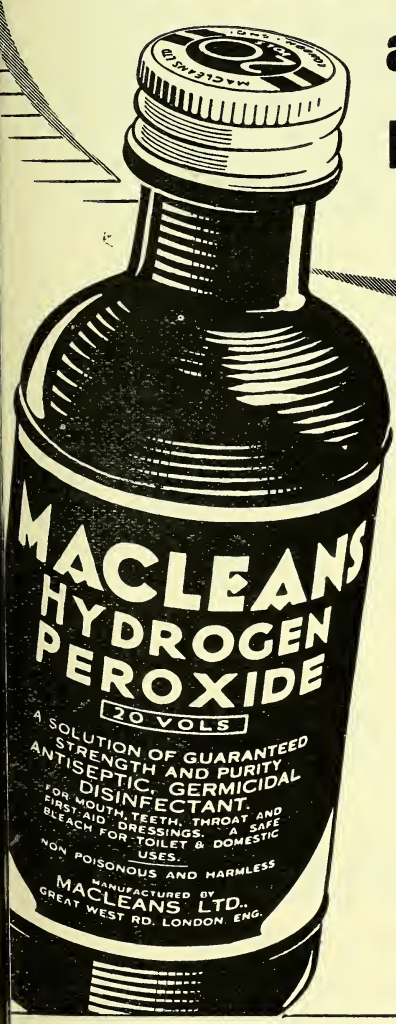

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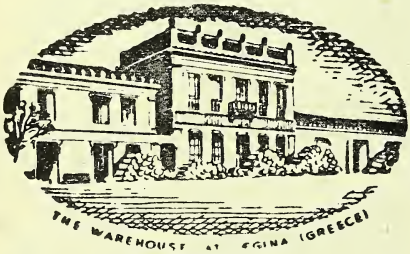

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Life was of no value to Hero without Leander—*it was incomplete.*

And many nutrients are of little or no value to the body without the completing presence of an essential companion. As knowledge of these "inter-dependences" increases, the value of Complevite is increasingly widely demonstrated. The formula of Complevite is based on the body's fundamental need for nutritional *completeness*. Containing the most important vitamins *and minerals*, in rational dosage, it is designed to make good those factors commonly needed as additions to the average or the "special" diet.

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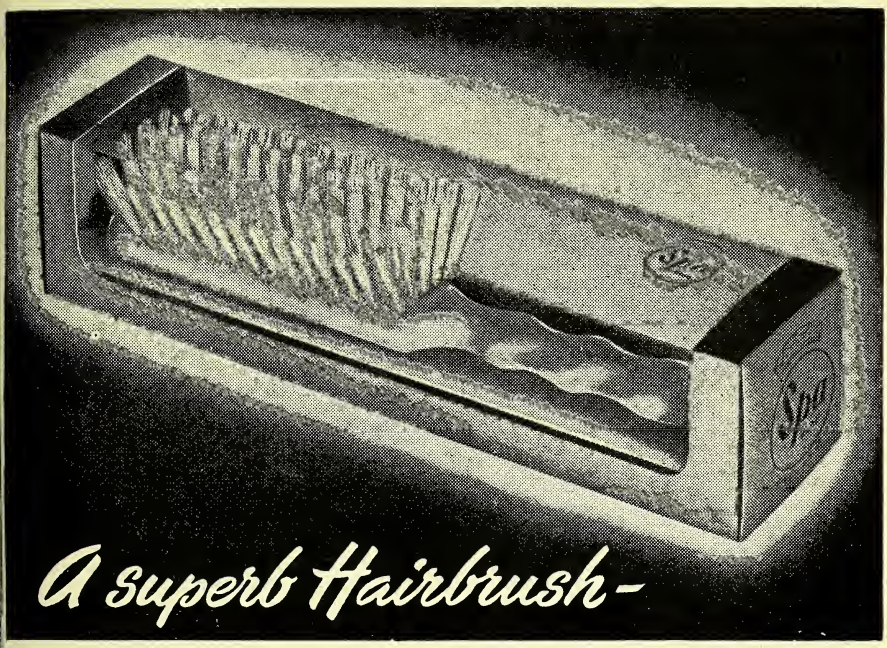

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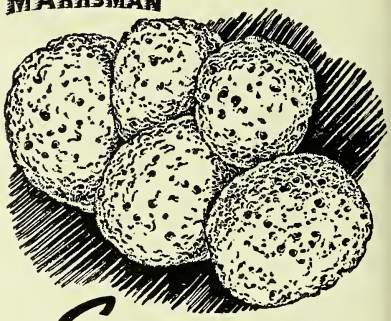

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Lotion, large	24/9	24/9	4/10
Lotion with Oil, small (see SPECIAL NOTE above)	13/-	13/-	2/7½ { 2/6½ from 1/3/50
Lotion with Oil, large	24/9	24/9	4/10
Soapless Powder Shampoo	3/7	1/2½	6d
Lustrefoam Liquid Shampoo	7/10	2/7	1/1
Silvifix Hair Cream	18/–	18/–	3/6
Kemt Complete (with Spray)	45/–	45/–	8/9
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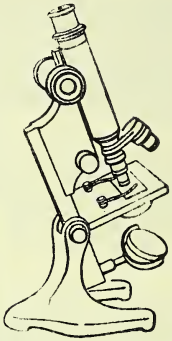

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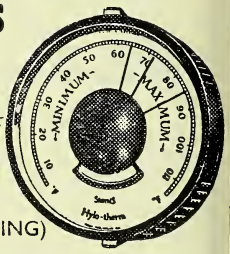

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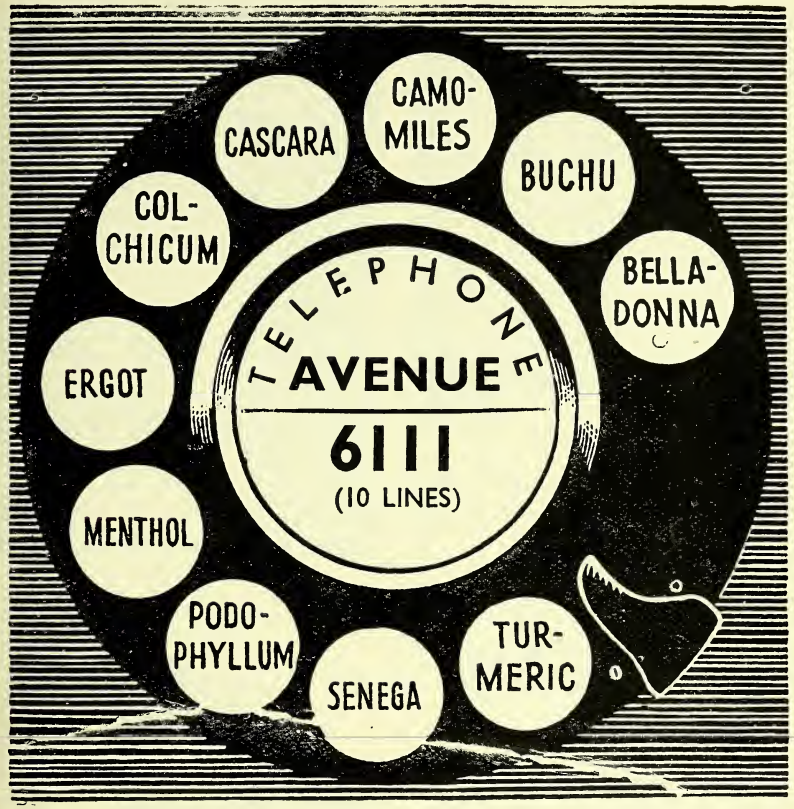

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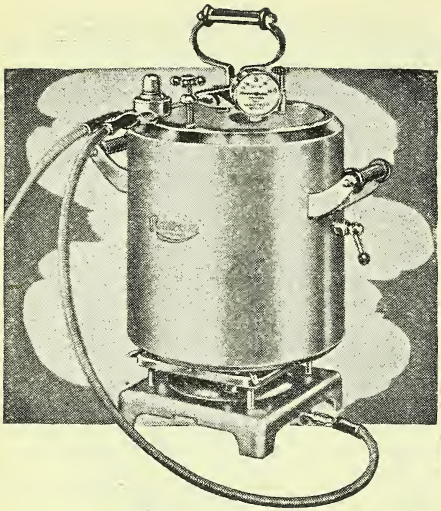

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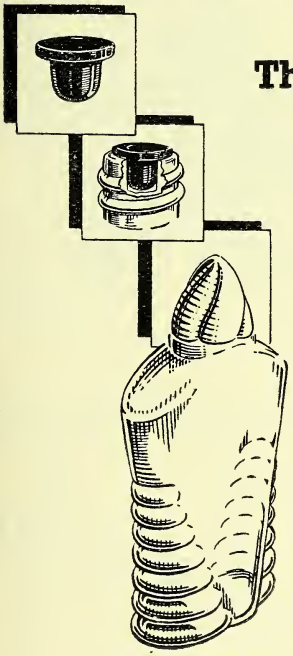

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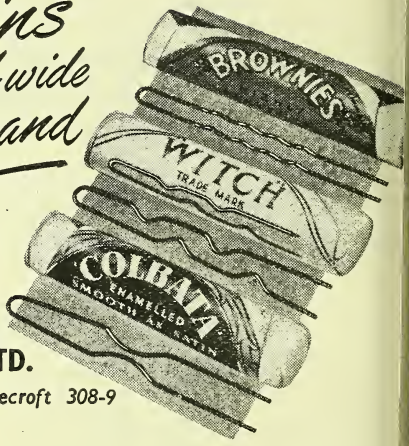

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From JANUARY 1st, 1950

TINS become the official N·H·S pack for

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Now the only Smith and Nephew Elastic Adhesive Bandage for N.H.S. use will be ELASTOPLAST in the familiar red tin. Production of Paragon Bandages (in cartons) has now ceased and no further orders can be accepted. By permission of the Ministry of Health, manufacturers may supply and pharmacists dispense, at the new prices, existing stocks whether in cartons or tins, until March 31st 1950.

NEW TARIFF PRICES

For Elastic Adhesive Bandages:

2½″ x 3 yards 36/9 per dozen
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(2″ and 4″ x 3 yds. also available for counter sale)

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A NON-GREASY, NON-ADHERENT WOUND DRESSING

A bland dressing incorporating antiseptics of proved low toxicity in a sterilised glyco-gelatin base, which provides marked healing and coagulating properties.

By seepage into the wound and diffusion over the adjacent skin surfaces, the medicament rapidly inhibits Gram-Positive organisms, in particular Staph. Aureus, Strep. Haemolyticus, Strep. Viridans and also B. Pyocyaneus.

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For use as a general dressing for Burns, Accidental and Operational Wounds, Boils, Carbuncles, Varicose Ulcers, Trophic Ulcers, Bed Sores. As a post-operative dressing in rectal operations and the preparation of tissue surfaces for skin grafts.

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Packed to facilitate non-touch technique in boxes of 24 pieces 4′ × 3½″.

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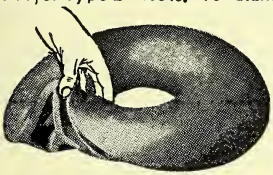

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IN
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Safeguard your WINDOW DISPLAYS and AVOID "MISSED" SALES WITH—

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PREVENTS MIST — LONG LASTING

AT last, a de-misting preparation which is the complete answer to condensation problems on shop windows, showcases, etc. MISTOVOID will prevent condensation and remains effective from 1 to 3 weeks. It is a non-abrasive, non-inflammable preparation with cleaning as well as de-misting properties. It is easily applied and is exceptionally economical for treating large surfaces.

- **AS SUPPLIED TO WELL-KNOWN SHOPS AND STORES THROUGHOUT THE COUNTRY**
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- *For a normal Double-fronted shop a Gallon lasts a Season*

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In accordance with N.H.S. requirements

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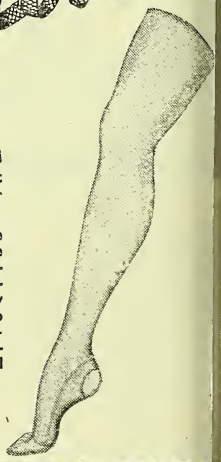

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For unrestricted sale through registered Chemists.

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Usual discount to Wholesalers

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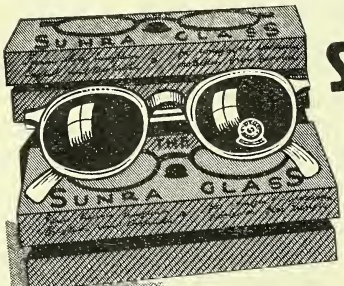
. . . Customers value your discretion so . . .

before stocking up, please ask your wholesaler to show you our 1950 range — new models, keen prices. Over 15 styles from which to choose, retailing from **9d.** with our popular L.2 model "Sunrex" with ***glass lens*** at **1/9.** individually boxed!!

Buy BRITISH this Season



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- GROUND by a special process to ensure controlled tenuity.
- VISCOSITY established under expert supervision.
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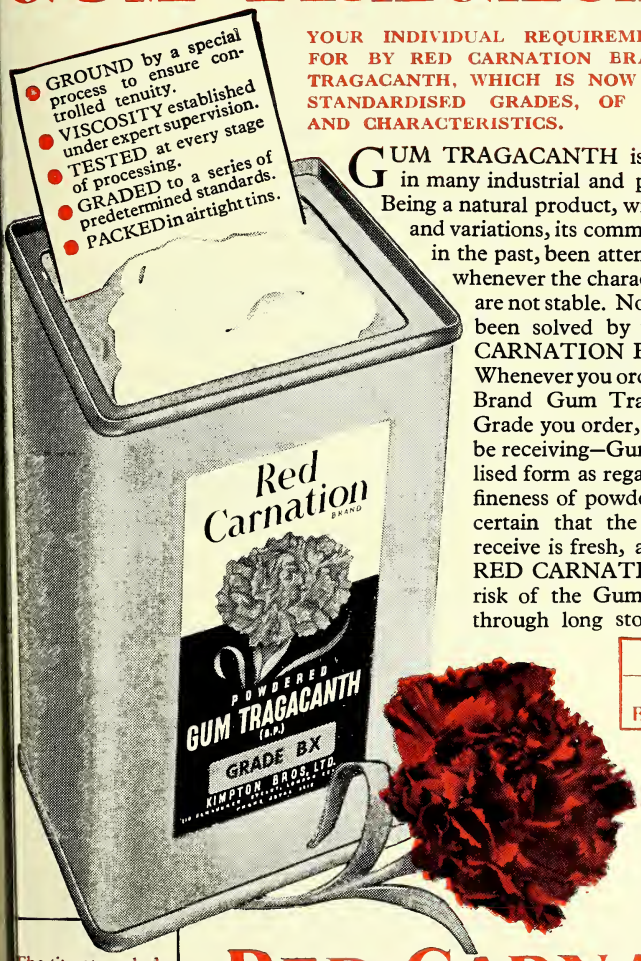
GUM TRAGACANTH is an essential ingredient in many industrial and pharmaceutical formulæ. Being a natural product, with natural imperfections and variations, its commercial applications have, in the past, been attended by problems arising whenever the characteristics of an ingredient are not stable. Now—these problems have been solved by the marketing of RED CARNATION Brand Gum Tragacanth. Whenever you order RED CARNATION Brand Gum Tragacanth, and whatever Grade you order, you know what you will be receiving—Gum Tragacanth in a stabilised form as regards viscosity, colour and fineness of powder. In addition, you are certain that the Gum Tragacanth you receive is fresh, as the large turnover of RED CARNATION Brand obviates the risk of the Gum in stock deteriorating through long storage.



GRADES			
1	2	3	4
BXXX	BXX	BX	BA

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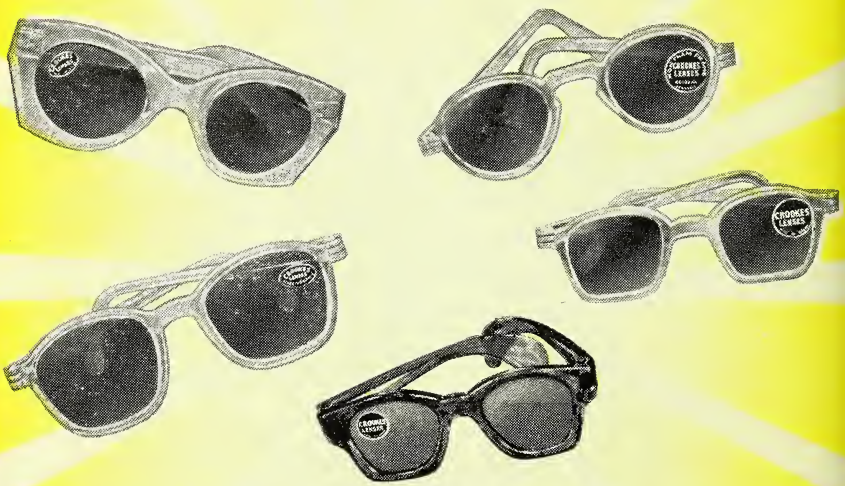
Popular & Fast Selling

SUNGLASSES

75 styles for 1950!

Retailing from 8d to 2gns.



The new 1950 range of Bartlett Sunglasses consists of popular and fast selling modern styles that are priced right to bring you quick and profitable results — truly it is the most complete assortment yet offered to the trade!

Before buying your Sunglasses for 1950 be sure to consider carefully this outstanding Bartlett range. Order from your wholesaler.

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EYE-DROPS

Problems

LIQUOR PRO GUTTIS . . Sterile
DISTILLED WATER . . . Sterile
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Each is available in Amber Dropper bottles containing 120, 240 or 480 minims

The use of these Solvents, in this form, permits the easy preparation of the entire range of N.F. Eye-drops

Sample kit of 1 doz. assorted, with directions. Carriage paid 15/-

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LINTHWAITE · HUDDERSFIELD

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BIG PRICE REDUCTION

DEALER PROFIT MARGIN UP

Increasing Demand for Finest Soapless Washing Product Brings Down Costs.

The price of Stergene has been reduced. The cost to your customer is now only 1/9d. a bottle (plus 1d. deposit on bottle). The profit per bottle has *not* been reduced. It remains the same. The smaller initial outlay per dozen brings you the same cash return as when the former price prevailed. Thus, the profit *margin* has been increased. In addition, a handling allowance will be made to the trade for the trouble taken in handling empties. This we thought to be as good a way as any to pass on to all Stergene dealers part of the benefits of increased demand.

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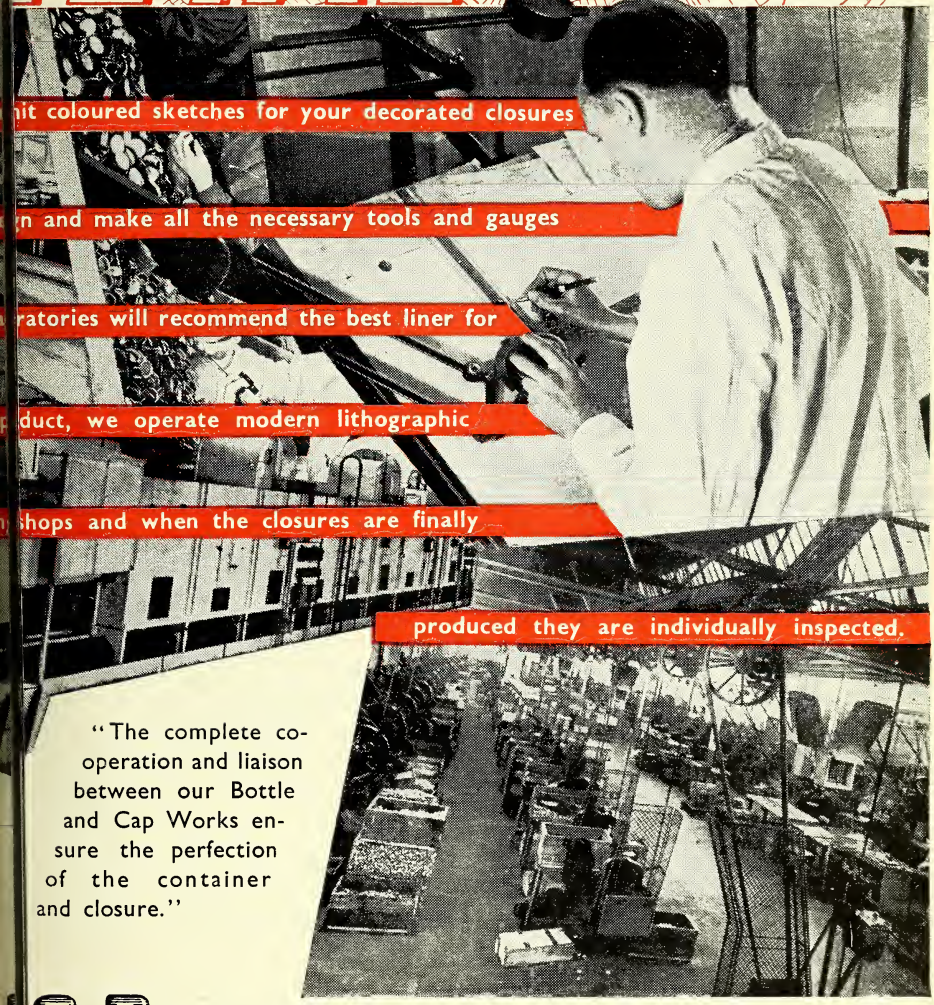
Stergene
SCIENCE IN CLEANSING

RETAIL PRICE
1'9
PLUS 1d DEPOSIT ON BOTTLE

DOMESTOS LIMITED · COLLEGE WORKS · NEWCASTLE UPON TYN

METAL CLOSURES



"The complete co-operation and liaison between our Bottle and Cap Works ensure the perfection of the container and closure."

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The Perfect Pair

UNITED GLASS BOTTLE MANUFACTURERS LTD.

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FOR EVERY MONTH OF THE YEAR

"ZEMS"
HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR
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BROBAT PRODUCTS

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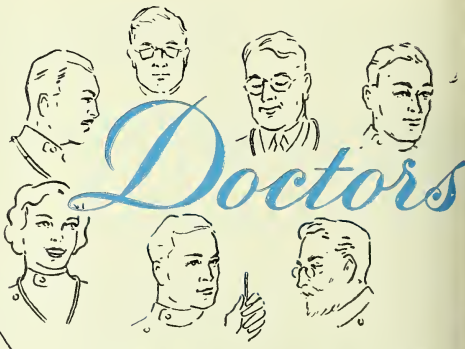

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by FEATURING Ortho-Gynol you are taking a realistic step towards sales development in YOUR PHARMACY

Consistently promoted to the medical profession through direct representation, mail and advertising . . . the effective and universally accepted contraceptive developed through exhaustive gynaecological research.

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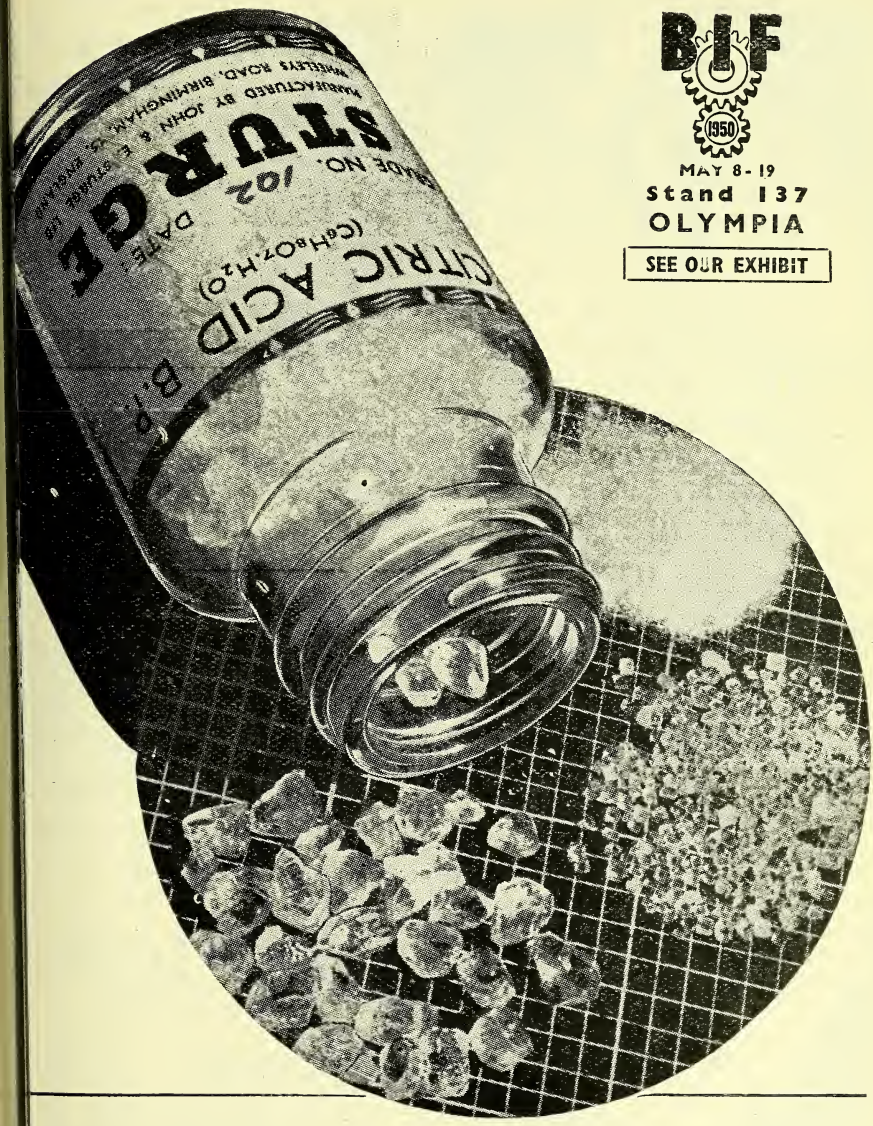

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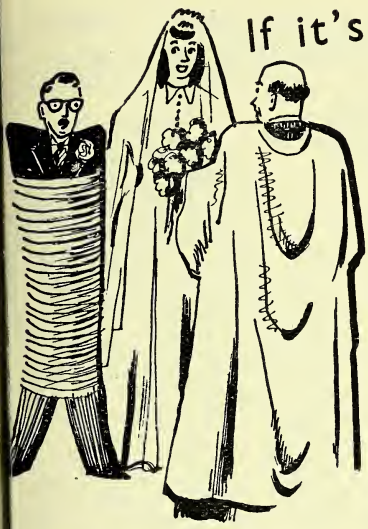

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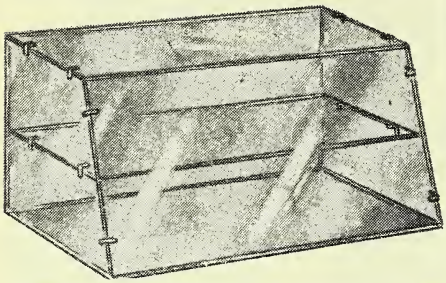

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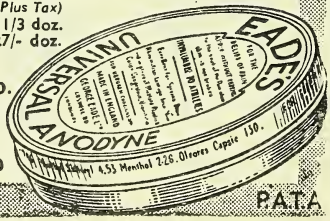

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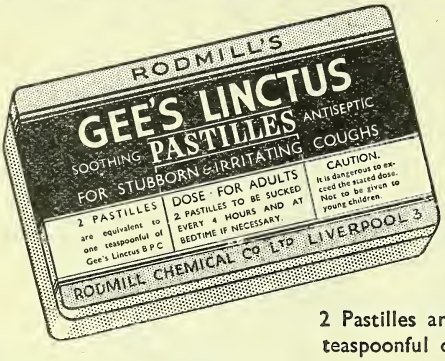

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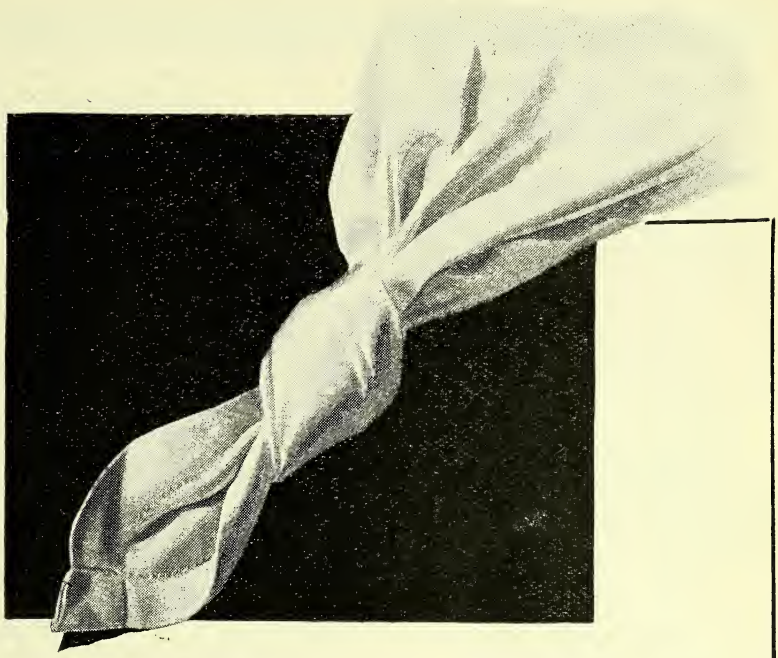

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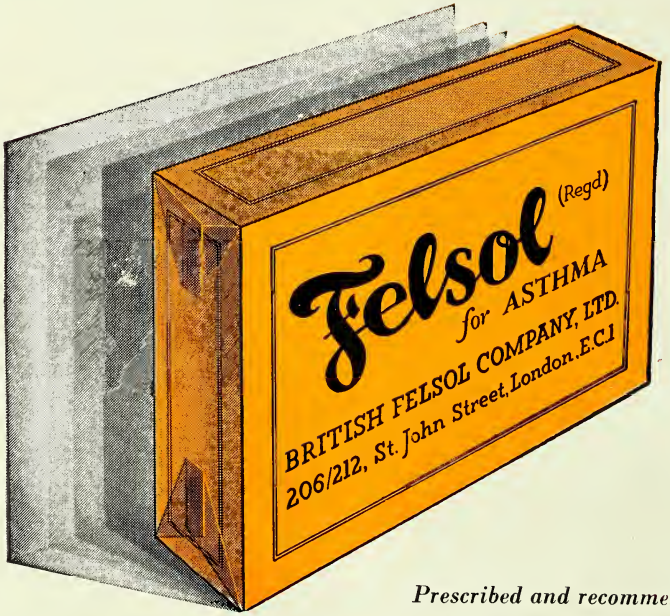

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